SEQUENCE LISTING

<110> University of South Florida
University of South Florida

<120> NOVEL SH2-CONTAINING INOSITOL 5'-PHOSPHATASE ISOFORM THAT
PARTNERS WITH THE GRB2 ADAPTER PROTEIN

<130> 1372.79.PR

<140> 60319583

<141> 2002-09-30

<160> 10

<170> PatentIn version 3.2

<210> 1

<211> 4125

<212> PRT

<213> Mouse

<223> Mouse s-SHIP sequence of the SHIP isoform

<400> 1

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1   5   10   15

Gly Ala Ala Cys Thr Thr Thr Ala Cys Cys Thr Thr Gly Ala Ala Cys
            20   25   30

Cys Thr Cys Thr Gly Cys Thr Cys Cys Ala Gly Gly Gly Ala Ala
        35   40   45

Gly Thr Cys Ala Thr Cys Ala Gly Gly Ala Cys Thr Cys Thr Gly Cys
    50   55   60

Cys Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys Thr
65   70   75   80

Gly Cys Ala Gly Ala Gly Gly Thr Thr Gly Thr Thr Thr Gly Ala Cys
                85   90   95

Cys Ala Ala Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Cys Ala Gly
            100   105   110

Gly Cys Cys Thr Thr Cys Gly Cys Cys Cys Ala Cys Gly Ala Cys Cys
            115   120   125

Thr Cys Ala Gly Gly Thr Gly Cys Cys Cys Gly Gly Ala Gly Ala Gly
    130   135   140

Gly Cys Cys Ala Gly Thr Cys Cys Cys Ala Thr Cys Ala Cys Cys Ala
145   150   155   160

Thr Gly Gly Thr Thr Gly Cys Cys Ala Ala Ala Cys Thr Cys Ala Gly
                165   170   175

Cys Cys Ala Ala Thr Thr Gly Ala Cys Ala Ala Gly Thr Cys Thr Gly
            180   185   190

Cys Thr Gly Thr Cys Thr Thr Cys Cys Ala Thr Thr Gly Ala Ala Gly
            195   200   205

Ala Thr Ala Ala Gly Gly Thr Cys Ala Ala Gly Thr Cys Cys Thr Thr
    210   215   220

Gly Cys Thr Gly Cys Ala Cys Gly Ala Gly Gly Gly Cys Thr Cys Ala
225   230   235   240

Gly Ala Ala Thr Cys Thr Ala Cys Cys Ala Ala Cys Ala Gly Gly Cys
                245   250   255

Gly Thr Thr Cys Cys Cys Thr Thr Ala Thr Cys Cys Cys Thr Cys Cys

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           260         265         270
Gly Gly Thr Cys Ala Cys Cys Thr Thr Thr Gly Ala Gly Gly Thr Gly
       275         280         285
Ala Ala Gly Thr Cys Ala Gly Ala Gly Thr Cys Cys Cys Thr Gly Gly
     290         295         300
Gly Cys Ala Thr Thr Cys Cys Thr Cys Ala Gly Ala Ala Ala Ala Thr
305         310         315         320
Gly Cys Ala Thr Cys Thr Cys Ala Ala Ala Gly Thr Gly Gly Ala Cys
           325         330         335
Gly Thr Thr Gly Ala Gly Thr Cys Thr Gly Gly Gly Ala Ala Ala Cys
           340         345         350
Thr Gly Ala Thr Cys Gly Thr Thr Ala Ala Gly Ala Ala Gly Thr Cys
       355         360         365
Cys Ala Ala Gly Gly Ala Thr Gly Gly Thr Thr Cys Thr Gly Ala Gly
     370         375         380
Gly Ala Cys Ala Ala Gly Thr Thr Cys Thr Ala Cys Ala Gly Cys Cys
385         390         395         400
Ala Cys Ala Ala Ala Ala Ala Ala Thr Cys Cys Thr Gly Cys Ala
           405         410         415
Gly Cys Thr Cys Ala Thr Thr Ala Ala Gly Thr Cys Cys Cys Ala Gly
       420         425         430
Ala Ala Gly Thr Thr Thr Cys Thr Ala Ala Ala Cys Ala Ala Gly Thr
     435         440         445
Thr Gly Gly Thr Gly Ala Thr Thr Thr Thr Gly Gly Thr Gly Gly Ala
   450         455         460
Gly Ala Cys Gly Gly Ala Gly Ala Ala Gly Gly Ala Gly Ala Ala Ala
465         470         475         480
Ala Thr Cys Cys Thr Gly Ala Gly Gly Ala Ala Gly Gly Ala Ala Thr
           485         490         495
Ala Thr Gly Thr Thr Thr Thr Thr Gly Cys Thr Gly Ala Cys Thr Cys
       500         505         510
Thr Ala Ala Gly Ala Ala Ala Ala Gly Ala Gly Ala Ala Gly Gly Cys
         515         520         525
Thr Thr Cys Thr Gly Thr Cys Ala Ala Cys Thr Cys Cys Thr Gly Cys
     530         535         540
Ala Gly Cys Ala Gly Ala Thr Gly Ala Ala Gly Ala Ala Cys Ala Ala
545         550         555         560
Gly Cys Ala Thr Thr Cys Gly Gly Ala Gly Cys Ala Gly Cys Cys Ala
           565         570         575
Gly Ala Gly Cys Cys Thr Gly Ala Cys Ala Thr Gly Ala Thr Cys Ala
       580         585         590
Cys Cys Ala Thr Cys Thr Thr Cys Ala Thr Thr Gly Gly Cys Ala Cys
     595         600         605
Thr Thr Gly Gly Ala Ala Cys Ala Thr Gly Gly Gly Thr Ala Ala Thr
   610         615         620
Gly Cys Ala Cys Cys Cys Cys Cys Thr Cys Cys Ala Ala Gly Ala
625         630         635         640
Ala Gly Ala Thr Cys Ala Cys Gly Thr Cys Cys Thr Gly Gly Thr Thr
           645         650         655
Thr Cys Thr Cys Thr Cys Cys Ala Ala Gly Gly Gly Gly Cys Ala Gly
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            660            665            670
Gly Gly Ala Ala Ala Gly Ala Cys Ala Cys Gly Gly Gly Ala Cys Gly
        675            680            685
Ala Cys Thr Cys Thr Gly Cys Thr Gly Ala Cys Thr Ala Cys Ala Thr
      690            695            700
Cys Cys Cys Cys Cys Ala Thr Gly Ala Cys Ala Thr Cys Thr Ala Thr
705            710            715            720
Gly Thr Gly Ala Thr Thr Gly Gly Cys Ala Cys Cys Cys Ala Gly Gly
            725            730            735
Ala Gly Gly Ala Thr Cys Cys Cys Cys Thr Thr Gly Gly Ala Gly Ala
        740            745            750
Gly Ala Ala Gly Gly Ala Gly Thr Gly Gly Cys Thr Gly Gly Ala Gly
      755            760            765
Cys Thr Ala Cys Thr Cys Ala Gly Gly Cys Ala Cys Thr Cys Cys Cys
    770            775            780
Thr Gly Cys Ala Ala Gly Ala Ala Gly Thr Cys Ala Cys Cys Ala Gly
785            790            795            800
Cys Ala Thr Gly Ala Cys Ala Thr Thr Thr Ala Ala Ala Ala Cys Ala
          805            810            815
Gly Thr Thr Gly Cys Cys Ala Thr Cys Cys Ala Cys Ala Cys Cys Cys
        820            825            830
Thr Cys Thr Gly Gly Ala Ala Cys Ala Thr Thr Cys Gly Cys Ala Thr
    835            840            845
Ala Gly Thr Gly Gly Thr Gly Cys Thr Thr Gly Cys Cys Ala Ala Gly
  850            855            860
Cys Cys Ala Gly Ala Gly Cys Ala Thr Gly Ala Gly Ala Ala Thr Cys
865            870            875            880
Gly Gly Ala Thr Cys Ala Gly Cys Cys Ala Thr Ala Thr Cys Thr Gly
            885            890            895
Cys Ala Cys Thr Gly Ala Cys Ala Ala Cys Gly Thr Gly Ala Ala Gly
        900            905            910
Ala Cys Ala Gly Gly Cys Ala Thr Cys Gly Cys Cys Ala Ala Cys Ala
      915            920            925
Cys Cys Cys Thr Gly Gly Gly Ala Ala Ala Cys Ala Ala Gly Gly Gly
    930            935            940
Ala Gly Cys Ala Gly Thr Gly Gly Gly Ala Gly Thr Gly Thr Cys Cys
945            950            955            960
Thr Thr Cys Ala Thr Gly Thr Thr Cys Ala Ala Thr Gly Gly Ala Ala
            965            970            975
Cys Cys Thr Cys Cys Thr Thr Gly Gly Gly Gly Thr Thr Cys Gly Thr
        980            985            990
Cys Ala Ala Cys Ala Gly Cys Cys  Ala Cys Thr Thr Gly  Ala Cys Thr
      995            1000            1005
Thr Cys  Thr Gly Gly Ala Ala  Gly Cys Gly Ala Ala  Ala Ala Ala
    1010            1015            1020
Ala Ala  Gly Cys Thr Cys Ala  Gly Gly Ala Gly Ala  Ala Ala Thr
    1025            1030            1035
Cys Ala  Ala Ala Ala Cys Thr  Ala Thr Ala Thr Gly  Ala Ala Cys
    1040            1045            1050
Ala Thr  Cys Cys Thr Gly Cys  Gly Gly Thr Thr Cys  Cys Thr Gly
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       1055            1060            1065
Gly Cys  Cys Cys Thr Gly Gly  Gly Ala Gly Ala Cys  Ala Ala Gly
       1070            1075            1080
Ala Ala  Gly Cys Thr Ala Ala  Gly Cys Cys Cys Ala  Thr Thr Thr
       1085            1090            1095
Ala Ala  Cys Ala Thr Cys Ala  Cys Cys Cys Ala Cys  Cys Gly Cys
       1100            1105            1110
Thr Thr  Cys Ala Cys Cys Cys  Ala Cys Cys Thr Cys  Thr Thr Cys
       1115            1120            1125
Thr Gly  Gly Cys Thr Thr Gly  Gly Gly Gly Ala Thr  Cys Thr Cys
       1130            1135            1140
Ala Ala  Cys Thr Ala Cys Cys  Gly Cys Gly Thr Gly  Gly Ala Gly
       1145            1150            1155
Cys Thr  Gly Cys Cys Cys Ala  Cys Thr Thr Gly Gly  Gly Ala Gly
       1160            1165            1170
Gly Cys  Ala Gly Ala Gly Gly  Cys Cys Ala Thr Cys  Ala Thr Cys
       1175            1180            1185
Cys Ala  Gly Ala Ala Gly Ala  Thr Cys Ala Ala Gly  Cys Ala Ala
       1190            1195            1200
Cys Ala  Gly Cys Ala Gly Thr  Ala Thr Thr Cys Ala  Gly Ala Cys
       1205            1210            1215
Cys Thr  Thr Cys Thr Gly Gly  Cys Cys Cys Ala Cys  Gly Ala Cys
       1220            1225            1230
Cys Ala  Ala Cys Thr Gly Cys  Thr Cys Cys Thr Gly  Gly Ala Gly
       1235            1240            1245
Ala Gly  Gly Ala Ala Gly Gly  Ala Cys Cys Ala Gly  Ala Ala Gly
       1250            1255            1260
Gly Thr  Cys Thr Thr Cys Cys  Thr Gly Cys Ala Cys  Thr Thr Thr
       1265            1270            1275
Gly Ala  Gly Gly Ala Gly Gly  Ala Ala Gly Ala Gly  Ala Thr Cys
       1280            1285            1290
Ala Cys  Cys Thr Thr Cys Gly  Cys Cys Cys Cys Cys  Ala Cys Cys
       1295            1300            1305
Thr Ala  Thr Cys Gly Ala Thr  Thr Thr Gly Ala Ala  Ala Gly Ala
       1310            1315            1320
Cys Thr  Gly Ala Cys Cys Cys  Gly Gly Gly Ala Cys  Ala Ala Gly
       1325            1330            1335
Thr Ala  Thr Gly Cys Ala Thr  Ala Cys Ala Cys Gly  Ala Ala Gly
       1340            1345            1350
Cys Ala  Gly Ala Ala Ala Gly  Cys Ala Ala Cys Ala  Gly Gly Gly
       1355            1360            1365
Ala Thr  Gly Ala Ala Gly Thr  Ala Cys Ala Ala Cys  Thr Thr Gly
       1370            1375            1380
Cys Cys  Gly Thr Cys Cys Thr  Gly Gly Thr Gly Cys  Gly Ala Cys
       1385            1390            1395
Cys Gly  Ala Gly Thr Cys Cys  Thr Cys Thr Gly Gly  Ala Ala Gly
       1400            1405            1410
Thr Cys  Thr Thr Ala Cys Cys  Cys Gly Cys Thr Gly  Gly Thr Gly
       1415            1420            1425
Cys Ala  Thr Gly Thr Gly Gly  Thr Cys Thr Gly Thr  Cys Ala Gly
```

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       1430           1435           1440
Thr Cys  Cys Thr Ala Thr Gly  Gly Cys Ala Gly Thr  Ala Cys Cys
       1445           1450           1455
Ala Gly  Thr Gly Ala Cys Ala  Thr Cys Ala Thr Gly  Ala Cys Gly
       1460           1465           1470
Ala Gly  Thr Gly Ala Cys Cys  Ala Cys Ala Gly Cys  Cys Cys Thr
       1475           1480           1485
Gly Thr  Cys Thr Thr Thr Gly  Cys Cys Ala Cys Gly  Thr Thr Thr
       1490           1495           1500
Gly Ala  Ala Gly Cys Gly Gly  Gly Ala Gly Thr Cys  Ala Cys Ala
       1505           1510           1515
Thr Cys  Thr Cys Ala Ala Thr  Thr Cys Gly Thr Cys  Thr Cys Cys
       1520           1525           1530
Ala Ala  Gly Ala Ala Thr Gly  Gly Thr Cys Cys Thr  Gly Gly Cys
       1535           1540           1545
Ala Cys  Thr Gly Thr Ala Gly  Ala Thr Ala Gly Cys  Cys Ala Ala
       1550           1555           1560
Gly Gly  Gly Cys Ala Gly Ala  Thr Cys Gly Ala Gly  Thr Thr Thr
       1565           1570           1575
Cys Thr  Thr Gly Cys Ala Thr  Gly Cys Thr Ala Cys  Gly Cys Cys
       1580           1585           1590
Ala Cys  Ala Cys Thr Gly Ala  Ala Gly Ala Cys Cys  Ala Ala Gly
       1595           1600           1605
Thr Cys  Cys Cys Ala Gly Ala  Cys Thr Ala Ala Gly  Thr Thr Cys
       1610           1615           1620
Thr Ala  Cys Thr Thr Gly Gly  Ala Gly Thr Thr Cys  Cys Ala Cys
       1625           1630           1635
Thr Cys  Ala Ala Gly Cys Thr  Gly Cys Thr Thr Ala  Gly Ala Gly
       1640           1645           1650
Ala Gly  Thr Thr Thr Thr Gly  Thr Cys Ala Ala Gly  Ala Gly Thr
       1655           1660           1665
Cys Ala  Gly Gly Ala Ala Gly  Gly Ala Gly Ala Gly  Ala Ala Thr
       1670           1675           1680
Gly Ala  Ala Gly Ala Gly Gly  Gly Ala Ala Gly Thr  Gly Ala Ala
       1685           1690           1695
Gly Gly  Ala Gly Ala Gly Cys  Thr Gly Gly Thr Gly  Gly Thr Ala
       1700           1705           1710
Cys Gly  Gly Thr Thr Thr Gly  Gly Ala Gly Ala Gly  Ala Cys Thr
       1715           1720           1725
Cys Thr  Thr Cys Cys Cys Ala  Ala Gly Cys Thr Ala  Ala Ala Gly
       1730           1735           1740
Cys Cys  Cys Ala Thr Thr Ala  Thr Cys Thr Cys Thr  Gly Ala Cys
       1745           1750           1755
Cys Cys  Cys Gly Ala Gly Thr  Ala Cys Thr Thr Ala  Cys Thr Gly
       1760           1765           1770
Gly Ala  Cys Cys Ala Gly Cys  Ala Thr Ala Thr Cys  Cys Thr Gly
       1775           1780           1785
Ala Thr  Cys Ala Gly Cys Ala  Thr Thr Ala Ala Ala  Thr Cys Cys
       1790           1795           1800
Thr Cys  Thr Gly Ala Cys Ala  Gly Thr Gly Ala Cys  Gly Ala Gly
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        1805            1810            1815
Thr Cys  Cys Thr Ala Thr Gly  Gly Thr Gly Ala Ala  Gly Gly Cys
        1820            1825            1830
Thr Gly  Cys Ala Thr Thr Gly  Cys Cys Cys Thr Thr  Cys Gly Cys
        1835            1840            1845
Thr Thr  Gly Gly Ala Gly Ala  Cys Cys Ala Cys Ala  Gly Ala Gly
        1850            1855            1860
Gly Cys  Thr Cys Ala Gly Cys  Ala Thr Cys Cys Thr  Ala Thr Cys
        1865            1870            1875
Thr Ala  Cys Ala Cys Gly Cys  Cys Thr Cys Thr Cys  Ala Cys Cys
        1880            1885            1890
Cys Ala  Cys Cys Ala Thr Gly  Gly Gly Gly Ala Gly  Ala Thr Gly
        1895            1900            1905
Ala Cys  Thr Gly Gly Cys Cys  Ala Cys Thr Thr Cys  Ala Gly Gly
        1910            1915            1920
Gly Gly  Ala Gly Ala Gly Ala  Thr Thr Ala Ala Gly  Cys Thr Gly
        1925            1930            1935
Cys Ala  Gly Ala Cys Cys Thr  Cys Cys Cys Ala Gly  Gly Gly Cys
        1940            1945            1950
Ala Ala  Gly Ala Thr Gly Ala  Gly Gly Gly Ala Gly  Ala Ala Gly
        1955            1960            1965
Cys Thr  Cys Thr Ala Thr Gly  Ala Cys Thr Thr Thr  Gly Thr Gly
        1970            1975            1980
Ala Ala  Gly Ala Cys Ala Gly  Ala Gly Cys Gly Gly  Gly Ala Thr
        1985            1990            1995
Gly Ala  Ala Thr Cys Cys Ala  Gly Thr Gly Gly Ala  Ala Thr Gly
        2000            2005            2010
Ala Ala  Ala Thr Gly Cys Thr  Thr Gly Ala Ala Gly  Ala Ala Cys
        2015            2020            2025
Cys Thr  Cys Ala Cys Cys Ala  Gly Cys Cys Ala Thr  Gly Ala Cys
        2030            2035            2040
Cys Cys  Thr Ala Thr Gly Ala  Gly Gly Cys Ala Ala  Thr Gly Gly
        2045            2050            2055
Gly Ala  Gly Cys Cys Thr Thr  Cys Thr Gly Gly Cys  Ala Gly Gly
        2060            2065            2070
Gly Thr  Cys Cys Cys Thr Gly  Cys Ala Thr Gly Thr  Gly Gly Thr
        2075            2080            2085
Gly Thr  Cys Thr Cys Cys Ala  Gly Cys Cys Thr Cys  Ala Ala Thr
        2090            2095            2100
Gly Ala  Gly Ala Thr Gly Ala  Thr Cys Ala Ala Thr  Cys Cys Ala
        2105            2110            2115
Ala Ala  Cys Thr Ala Cys Ala  Thr Thr Gly Gly Thr  Ala Thr Gly
        2120            2125            2130
Gly Gly  Gly Cys Cys Thr Thr  Thr Thr Gly Gly Ala  Cys Ala Gly
        2135            2140            2145
Cys Cys  Cys Cys Thr Gly Cys  Ala Thr Gly Gly Gly  Ala Ala Ala
        2150            2155            2160
Thr Cys  Ala Ala Cys Cys Cys  Thr Gly Thr Cys Cys  Cys Cys Ala
        2165            2170            2175
Gly Ala  Thr Cys Ala Gly Cys  Ala Ala Cys Thr Cys  Ala Cys Ala
```

```
            2180            2185            2190
Gly Cys  Thr Thr Gly Gly Ala  Gly Thr Thr Ala Thr  Gly Ala Cys
     2195            2200            2205
Cys Ala  Gly Cys Thr Ala Cys  Cys Cys Ala Ala Ala  Gly Ala Cys
     2210            2215            2220
Thr Cys  Cys Thr Cys Cys Cys  Thr Gly Gly Gly Gly  Cys Cys Thr
     2225            2230            2235
Gly Gly  Gly Ala Gly Gly Gly  Gly Gly Gly Ala Gly  Gly Gly Thr
     2240            2245            2250
Cys Cys  Thr Cys Cys Ala Ala  Cys Cys Cys Cys Thr  Cys Cys Cys
     2255            2260            2265
Thr Cys  Cys Cys Ala Ala Cys  Cys Ala Cys Cys Thr  Cys Thr Gly
     2270            2275            2280
Thr Cys  Gly Cys Cys Ala Ala  Ala Gly Ala Ala Gly  Thr Thr Thr
     2285            2290            2295
Thr Cys  Ala Thr Cys Thr Thr  Cys Cys Ala Cys Ala  Gly Cys Cys
     2300            2305            2310
Ala Ala  Cys Cys Gly Ala Gly  Gly Thr Cys Cys Cys  Thr Gly Cys
     2315            2320            2325
Cys Cys  Cys Ala Gly Gly Gly  Thr Gly Cys Ala Ala  Gly Ala Gly
     2330            2335            2340
Gly Cys  Ala Ala Gly Ala Cys  Cys Thr Gly Gly Gly  Gly Ala Thr
     2345            2350            2355
Cys Thr  Gly Gly Gly Ala Ala  Ala Gly Gly Thr Gly  Gly Ala Ala
     2360            2365            2370
Gly Cys  Thr Cys Thr Gly Cys  Thr Cys Cys Ala Gly  Gly Ala Gly
     2375            2380            2385
Gly Ala  Cys Cys Thr Gly Cys  Thr Gly Cys Thr Gly  Ala Cys Gly
     2390            2395            2400
Ala Ala  Gly Cys Cys Cys Gly  Ala Gly Ala Thr Gly  Thr Thr Thr
     2405            2410            2415
Gly Ala  Gly Ala Ala Cys Cys  Cys Ala Cys Thr Gly  Thr Ala Thr
     2420            2425            2430
Gly Gly  Ala Thr Cys Cys Gly  Thr Gly Ala Gly Thr  Thr Cys Cys
     2435            2440            2445
Thr Thr  Cys Cys Cys Thr Ala  Ala Gly Cys Thr Gly  Gly Thr Gly
     2450            2455            2460
Cys Cys  Cys Ala Gly Gly Ala  Ala Ala Gly Ala Gly  Cys Ala Gly
     2465            2470            2475
Gly Ala  Gly Thr Cys Thr Cys  Cys Cys Ala Ala Gly  Ala Thr Gly
     2480            2485            2490
Cys Thr  Gly Cys Gly Gly Ala  Ala Gly Gly Ala Gly  Cys Cys Cys
     2495            2500            2505
Cys Cys  Gly Cys Cys Cys Thr  Gly Thr Cys Cys Ala  Gly Ala Cys
     2510            2515            2520
Cys Cys  Ala Gly Gly Ala Ala  Thr Cys Thr Cys Ala  Thr Cys Ala
     2525            2530            2535
Cys Cys  Cys Ala Gly Cys Ala  Thr Cys Gly Thr Gly  Cys Thr Cys
     2540            2545            2550
Cys Cys  Cys Ala Ala Ala Gly  Cys Cys Cys Ala Ala  Gly Ala Gly
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       2555            2560            2565
Gly Thr  Gly Gly Ala Gly Ala  Gly Thr Gly Thr Cys  Ala Ala Gly
       2570            2575            2580
Gly Gly  Gly Ala Cys Ala Ala  Gly Cys Ala Ala Ala  Cys Ala Gly
       2585            2590            2595
Gly Cys  Cys Cys Cys Thr Gly  Thr Gly Cys Cys Thr  Gly Thr Cys
       2600            2605            2610
Cys Thr  Thr Gly Gly Cys Cys  Cys Cys Ala Cys Ala  Cys Cys Cys
       2615            2620            2625
Cys Gly  Gly Ala Thr Cys Cys  Gly Cys Thr Cys Cys  Thr Thr Thr
       2630            2635            2640
Ala Cys  Cys Thr Gly Thr Thr  Cys Thr Thr Cys Thr  Thr Cys Thr
       2645            2650            2655
Gly Cys  Thr Gly Ala Gly Gly  Gly Cys Ala Gly Ala  Ala Thr Gly
       2660            2665            2670
Ala Cys  Cys Ala Gly Thr Gly  Gly Gly Gly Ala Cys  Ala Ala Gly
       2675            2680            2685
Ala Gly  Cys Cys Ala Ala Gly  Gly Gly Ala Ala Gly  Cys Cys Cys
       2690            2695            2700
Ala Ala  Gly Gly Cys Cys Thr  Cys Ala Gly Cys Cys  Ala Gly Thr
       2705            2710            2715
Thr Cys  Cys Cys Ala Ala Gly  Cys Cys Cys Cys Ala  Gly Thr Gly
       2720            2725            2730
Cys Cys  Ala Gly Thr Cys Ala  Ala Gly Ala Gly Gly  Cys Cys Thr
       2735            2740            2745
Gly Thr  Cys Ala Ala Gly Cys  Cys Thr Thr Cys Cys  Ala Gly Gly
       2750            2755            2760
Thr Cys  Ala Gly Ala Ala Ala  Thr Gly Ala Gly Cys  Cys Ala Gly
       2765            2770            2775
Cys Ala  Gly Ala Cys Ala Ala  Cys Ala Cys Cys Cys  Ala Thr Cys
       2780            2785            2790
Cys Cys  Ala Gly Cys Thr Cys  Cys Ala Cys Gly Gly  Cys Cys Ala
       2795            2800            2805
Cys Cys  Cys Cys Thr Gly Cys  Cys Ala Gly Thr Cys  Ala Ala Gly
       2810            2815            2820
Ala Gly  Thr Cys Cys Thr Gly  Cys Thr Gly Thr Cys  Cys Thr Gly
       2825            2830            2835
Cys Ala  Gly Cys Thr Gly Cys  Ala Ala Cys Ala Thr  Thr Cys Cys
       2840            2845            2850
Ala Ala  Ala Gly Gly Cys Ala  Gly Ala Gly Ala Cys  Thr Ala Cys
       2855            2860            2865
Cys Gly  Thr Gly Ala Cys Ala  Ala Cys Ala Cys Ala  Gly Ala Ala
       2870            2875            2880
Cys Thr  Cys Cys Cys Cys Cys  Ala Cys Cys Ala Thr  Gly Gly Cys
       2885            2890            2895
Ala Ala  Gly Cys Ala Cys Cys  Gly Cys Cys Ala Ala  Gly Ala Gly
       2900            2905            2910
Gly Ala  Gly Gly Gly Gly Cys  Thr Gly Cys Thr Thr  Gly Gly Cys
       2915            2920            2925
Ala Gly  Gly Ala Cys Thr Gly  Cys Cys Ala Thr Gly  Cys Ala Gly
```

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      2930            2935            2940
Thr Gly  Ala Gly Cys Thr Gly  Cys Thr Gly Gly Thr  Gly Ala Thr
      2945            2950            2955
Cys Gly  Gly Ala Gly Cys Cys  Thr Gly Gly Ala Gly  Gly Ala Ala
      2960            2965            2970
Cys Ala  Gly Cys Ala Cys Ala  Ala Ala Gly Cys Ala  Gly Ala Cys
      2975            2980            2985
Cys Thr  Gly Cys Gly Cys Cys  Thr Cys Thr Cys Thr  Cys Ala Gly
      2990            2995            3000
Gly Ala  Thr Gly Cys Cys Thr  Cys Thr Cys Thr Cys  Ala Gly Gly
      3005            3010            3015
Ala Thr  Gly Cys Cys Thr Cys  Thr Thr Gly Gly Ala  Gly Gly Ala
      3020            3025            3030
Cys Cys  Thr Cys Cys Thr Gly  Cys Thr Ala Gly Cys  Thr Cys Thr
      3035            3040            3045
Thr Cys  Thr Thr Gly Cys Cys  Thr Ala Gly Cys Thr  Thr Cys Ala
      3050            3055            3060
Ala Gly  Thr Cys Cys Cys Ala  Gly Gly Cys Thr Gly  Thr Gly Thr
      3065            3070            3075
Ala Thr  Thr Thr Thr Thr Thr  Thr Thr Cys Ala Gly  Gly Ala Ala
      3080            3085            3090
Ala Cys  Gly Gly Cys Cys Thr  Cys Ala Cys Thr Thr  Cys Thr Cys
      3095            3100            3105
Thr Gly  Thr Gly Gly Thr Cys  Cys Ala Ala Gly Ala  Ala Gly Thr
      3110            3115            3120
Gly Thr  Gly Cys Thr Gly Cys  Thr Gly Gly Cys Thr  Gly Cys Cys
      3125            3130            3135
Ala Cys  Ala Cys Thr Gly Thr  Gly Cys Gly Gly Cys  Ala Gly Ala
      3140            3145            3150
Thr Gly  Cys Thr Ala Ala Ala  Gly Cys Thr Gly Gly  Ala Thr Gly
      3155            3160            3165
Ala Cys  Ala Ala Ala Cys Gly  Cys Ala Cys Gly Cys  Cys Ala Thr
      3170            3175            3180
Ala Cys  Ala Gly Ala Cys Ala  Gly Cys Ala Gly Ala  Cys Ala Gly
      3185            3190            3195
Cys Gly  Gly Cys Ala Cys Thr  Gly Gly Gly Thr Cys  Thr Cys Ala
      3200            3205            3210
Gly Ala  Ala Cys Thr Thr Gly  Gly Ala Thr Thr Cys  Cys Thr Gly
      3215            3220            3225
Gly Gly  Cys Cys Thr Thr Cys  Thr Thr Cys Cys Ala  Gly Thr Cys
      3230            3235            3240
Gly Cys  Cys Gly Thr Thr Thr  Thr Ala Ala Ala Gly  Ala Ala Ala
      3245            3250            3255
Gly Gly  Ala Ala Cys Thr Ala  Ala Cys Gly Gly Ala  Gly Cys Thr
      3260            3265            3270
Gly Cys  Thr Cys Ala Thr Cys  Cys Gly Ala Gly Gly  Gly Thr Gly
      3275            3280            3285
Ala Ala  Gly Ala Thr Ala Thr  Ala Ala Ala Thr Ala  Ala Thr Ala
      3290            3295            3300
Ala Thr  Ala Thr Thr Ala Thr  Thr Ala Ala Thr Ala  Ala Thr Ala
```

```
        3305            3310            3315
Ala Thr  Ala Ala Cys Ala Gly  Thr Cys Ala Gly Gly  Thr Gly Cys
        3320            3325            3330
Cys Ala  Thr Gly Thr Gly Cys  Thr Gly Thr Gly Thr  Thr Ala Ala
        3335            3340            3345
Gly Thr  Gly Cys Thr Thr Thr  Ala Thr Gly Ala Ala  Cys Ala Thr
        3350            3355            3360
Thr Thr  Gly Thr Cys Gly Gly  Gly Cys Thr Gly Gly  Cys Cys Thr
        3365            3370            3375
Cys Cys  Ala Gly Thr Gly Cys  Thr Gly Ala Gly Gly  Thr Gly Cys
        3380            3385            3390
Cys Ala  Gly Thr Cys Ala Gly  Cys Cys Thr Gly Ala  Ala Cys Cys
        3395            3400            3405
Cys Thr  Ala Thr Gly Cys Cys  Cys Ala Gly Gly Cys  Cys Cys Ala
        3410            3415            3420
Cys Thr  Ala Ala Thr Cys Cys  Cys Ala Ala Ala Thr  Gly Gly Thr
        3425            3430            3435
Gly Gly  Gly Thr Cys Cys Thr  Gly Ala Gly Ala Thr  Gly Thr Thr
        3440            3445            3450
Thr Thr  Thr Ala Ala Ala Ala  Ala Gly Cys Ala Thr  Thr Ala Ala
        3455            3460            3465
Ala Gly  Ala Ala Ala Ala Cys  Cys Ala Thr Cys Gly  Gly Thr Cys
        3470            3475            3480
Thr Cys  Thr Thr Ala Gly Ala  Gly Cys Thr Ala Ala  Cys Cys Gly
        3485            3490            3495
Gly Cys  Cys Gly Gly Gly Cys  Thr Cys Thr Ala Cys  Thr Gly Cys
        3500            3505            3510
Ala Gly  Gly Gly Ala Cys Cys  Cys Gly Ala Ala Cys  Ala Gly Thr
        3515            3520            3525
Cys Thr  Gly Cys Ala Thr Gly  Gly Cys Thr Ala Ala  Gly Thr Gly
        3530            3535            3540
Gly Cys  Ala Cys Ala Ala Gly  Gly Ala Gly Cys Cys  Thr Gly Gly
        3545            3550            3555
Cys Cys  Cys Thr Gly Thr Cys  Cys Ala Gly Cys Thr  Thr Cys Ala
        3560            3565            3570
Gly Ala  Gly Ala Thr Cys Cys  Ala Ala Gly Cys Thr  Gly Cys Thr
        3575            3580            3585
Thr Thr  Thr Thr Gly Cys Thr  Gly Gly Gly Gly Thr  Thr Cys Thr
        3590            3595            3600
Gly Thr  Cys Ala Cys Ala Gly  Gly Cys Cys Thr Gly  Ala Thr Cys
        3605            3610            3615
Cys Thr  Cys Thr Thr Gly Gly  Thr Thr Thr Thr Thr  Ala Thr Gly
        3620            3625            3630
Gly Gly  Gly Thr Thr Thr Cys  Ala Ala Gly Thr Cys  Thr Gly Cys
        3635            3640            3645
Cys Ala  Gly Ala Gly Thr Cys  Ala Gly Ala Ala Ala  Thr Cys Ala
        3650            3655            3660
Gly Cys  Thr Cys Thr Ala Ala  Cys Thr Cys Gly Cys  Cys Ala Gly
        3665            3670            3675
Thr Gly  Ala Ala Gly Ala Gly  Ala Thr Cys Thr Gly  Gly Cys Cys
```

3680   3685   3690
Thr Thr Ala Ala Cys Thr Thr Ala Ala Gly Cys Cys Ala Gly Cys
3695   3700   3705
Cys Ala Cys Gly Thr Cys Ala Gly Gly Cys Cys Cys Cys Thr Gly
3710   3715   3720
Cys Thr Gly Ala Gly Cys Cys Thr Ala Thr Gly Gly Ala Cys Cys
3725   3730   3735
Ala Ala Thr Ala Ala Ala Thr Ala Cys Thr Cys Cys Cys Cys Gly
3740   3745   3750
Thr Gly Cys Cys Ala Cys Thr Gly Gly Ala Gly Gly Thr Gly Gly
3755   3760   3765
Gly Cys Ala Gly Cys Thr Ala Thr Cys Ala Cys Cys Ala Thr Ala
3770   3775   3780
Cys Cys Cys Thr Gly Ala Gly Thr Thr Gly Gly Gly Cys Cys Ala
3785   3790   3795
Ala Gly Cys Cys Cys Ala Cys Cys Cys Cys Ala Cys Cys Cys Cys
3800   3805   3810
Thr Ala Cys Cys Cys Thr Gly Cys Ala Ala Cys Ala Thr Thr Thr
3815   3820   3825
Cys Thr Gly Ala Thr Gly Thr Trp Cys Thr Gly Ala Gly Gly Ala
3830   3835   3840
Ala Gly Ala Gly Thr Cys Thr Cys Cys Ala Cys Cys Ala Thr Ala
3845   3850   3855
Gly Thr Cys Cys Cys Cys Ala Ala Gly Gly Gly Cys Thr Gly Ala
3860   3865   3870
Gly Thr Thr Cys Thr Cys Cys Ala Gly Cys Cys Thr Gly Cys Thr
3875   3880   3885
Ala Thr Cys Ala Gly Gly Gly Ala Ala Gly Gly Thr Gly Ala Gly
3890   3895   3900
Cys Ala Thr Thr Gly Gly Thr Cys Cys Cys Ala Gly Gly Cys Thr
3905   3910   3915
Cys Thr Cys Ala Ala Ala Ala Thr Ala Gly Thr Gly Cys Ala Gly
3920   3925   3930
Cys Cys Thr Cys Thr Thr Cys Thr Thr Cys Cys Cys Ala Ala Gly
3935   3940   3945
Cys Thr Cys Thr Gly Gly Gly Gly Thr Gly Cys Ala Cys Cys Cys
3950   3955   3960
Thr Gly Thr Gly Thr Cys Cys Thr Thr Gly Gly Thr Thr Ala Cys
3965   3970   3975
Cys Ala Gly Gly Ala Gly Ala Cys Thr Ala Gly Gly Gly Thr Thr
3980   3985   3990
Gly Thr Gly Ala Thr Ala Thr Cys Thr Thr Thr Thr Cys Thr Thr
3995   4000   4005
Gly Thr Cys Thr Thr Gly Cys Thr Thr Thr Thr Gly Ala Thr
4010   4015   4020
Ala Thr Ala Thr Cys Ala Gly Gly Ala Thr Thr Ala Ala Thr Gly
4025   4030   4035
Thr Ala Gly Gly Ala Ala Ala Cys Cys Ala Gly Ala Cys Cys Thr
4040   4045   4050
Ala Gly Ala Thr Thr Ala Thr Thr Cys Ala Gly Gly Ala Gly Ala

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    4055            4060            4065
Gly Thr  Ala Gly Gly Thr Ala  Thr Ala Thr Cys Cys  Cys Cys Thr
    4070            4075            4080
Gly Thr  Gly Thr Thr Thr Cys  Cys Cys Ala Gly Thr  Cys Thr Gly
    4085            4090            4095
Ala Gly  Thr Gly Ala Cys Cys  Ala Ala Thr Ala Ala  Ala Ala Thr
    4100            4105            4110
Thr Gly  Thr Gly Cys Cys Thr  Thr Thr Cys Thr Ala
    4115            4120            4125
<210> 2
<211> 3942
<212> PRT
<213> Mouse
<223> Alternate form of the Mouse s-SHIP sequence of the SHIP isoform.
<400> 2
Gly Thr Thr Cys Cys Cys Ala Cys Thr Ala Gly Thr Thr Gly Thr Thr
1           5           10              15
Gly Ala Ala Cys Thr Thr Thr Ala Cys Cys Thr Thr Gly Ala Ala Cys
        20          25          30
Cys Thr Cys Thr Gly Cys Thr Cys Cys Ala Gly Gly Gly Ala Ala
        35          40          45
Gly Thr Cys Ala Thr Cys Ala Gly Gly Ala Cys Thr Cys Thr Gly Cys
    50          55          60
Cys Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys Thr
65          70          75              80
Gly Cys Ala Gly Ala Gly Gly Thr Thr Gly Thr Thr Thr Gly Ala Cys
            85          90          95
Cys Ala Ala Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Cys Ala Gly
        100         105         110
Gly Cys Cys Thr Thr Cys Gly Cys Cys Cys Ala Cys Gly Ala Cys Cys
        115         120         125
Thr Cys Ala Gly Gly Thr Gly Cys Cys Cys Gly Gly Ala Gly Ala Gly
    130         135         140
Gly Cys Cys Ala Gly Thr Cys Cys Cys Ala Thr Cys Ala Cys Cys Ala
145         150         155         160
Thr Gly Gly Thr Thr Gly Cys Cys Ala Ala Ala Cys Thr Cys Ala Gly
            165         170         175
Cys Cys Ala Ala Thr Thr Gly Ala Cys Ala Ala Gly Thr Cys Thr Gly
        180         185         190
Cys Thr Gly Thr Cys Thr Thr Cys Cys Ala Thr Thr Gly Ala Ala Gly
        195         200         205
Ala Thr Ala Ala Gly Gly Thr Cys Ala Ala Gly Thr Cys Cys Thr Thr
    210         215         220
Gly Cys Thr Gly Cys Ala Cys Gly Ala Gly Gly Gly Cys Thr Cys Ala
225         230         235             240
Gly Ala Ala Thr Cys Thr Ala Cys Cys Ala Ala Cys Ala Gly Gly Cys
            245         250         255
Gly Thr Thr Cys Cys Cys Thr Thr Ala Thr Cys Cys Cys Thr Cys Cys
        260         265         270
Gly Gly Thr Cys Ala Cys Cys Thr Thr Thr Gly Ala Gly Gly Thr Gly
```

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          275           280           285
Ala Ala Gly Thr Cys Ala Gly Ala Gly Thr Cys Cys Cys Thr Gly Gly
     290           295           300
Gly Cys Ala Thr Thr Cys Cys Thr Cys Ala Gly Ala Ala Ala Ala Thr
305           310           315           320
Gly Cys Ala Thr Cys Thr Cys Ala Ala Ala Gly Thr Gly Gly Ala Cys
          325           330           335
Gly Thr Thr Gly Ala Gly Thr Cys Thr Gly Gly Gly Ala Ala Ala Cys
     340           345           350
Thr Gly Ala Thr Cys Gly Thr Thr Ala Ala Gly Ala Ala Gly Thr Cys
     355           360           365
Cys Ala Ala Gly Gly Ala Thr Gly Gly Thr Thr Cys Thr Gly Ala Gly
     370           375           380
Gly Ala Cys Ala Ala Gly Thr Thr Cys Thr Ala Cys Ala Gly Cys Cys
385           390           395           400
Ala Cys Ala Ala Ala Ala Ala Ala Ala Thr Cys Cys Thr Gly Cys Ala
          405           410           415
Gly Cys Thr Cys Ala Thr Thr Ala Ala Gly Thr Cys Cys Cys Ala Gly
          420           425           430
Ala Ala Gly Thr Thr Thr Cys Thr Ala Ala Ala Cys Ala Ala Gly Thr
     435           440           445
Thr Gly Gly Thr Gly Ala Thr Thr Thr Thr Gly Gly Thr Gly Gly Ala
     450           455           460
Gly Ala Cys Gly Gly Ala Gly Ala Ala Gly Gly Ala Gly Ala Ala Ala
465           470           475           480
Ala Thr Cys Cys Thr Gly Ala Gly Gly Ala Ala Gly Gly Ala Ala Thr
          485           490           495
Ala Thr Gly Thr Thr Thr Thr Thr Gly Cys Thr Gly Ala Cys Thr Cys
     500           505           510
Thr Ala Ala Gly Ala Ala Ala Ala Gly Ala Gly Ala Ala Gly Gly Cys
     515           520           525
Thr Thr Cys Thr Gly Thr Cys Ala Ala Cys Thr Cys Cys Thr Gly Cys
     530           535           540
Ala Gly Cys Ala Gly Ala Thr Gly Ala Ala Gly Ala Ala Cys Ala Ala
545           550           555           560
Gly Cys Ala Thr Thr Cys Gly Gly Ala Gly Cys Ala Gly Cys Cys Ala
          565           570           575
Gly Ala Gly Cys Cys Thr Gly Ala Cys Ala Thr Gly Ala Thr Cys Ala
          580           585           590
Cys Cys Ala Thr Cys Thr Thr Cys Ala Thr Thr Gly Gly Cys Ala Cys
     595           600           605
Thr Thr Gly Gly Ala Ala Cys Ala Thr Gly Gly Gly Thr Ala Ala Thr
     610           615           620
Gly Cys Ala Cys Cys Cys Cys Cys Thr Cys Cys Cys Ala Ala Gly Ala
625           630           635           640
Ala Gly Ala Thr Cys Ala Cys Gly Thr Cys Cys Thr Gly Gly Thr Thr
          645           650           655
Thr Cys Thr Cys Thr Cys Cys Ala Ala Gly Gly Gly Gly Cys Ala Gly
          660           665           670
Gly Gly Ala Ala Ala Gly Ala Cys Ala Cys Gly Gly Gly Ala Cys Gly
```

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              675            680            685
Ala Cys Thr Cys Thr Gly Cys Thr Gly Ala Cys Thr Ala Cys Ala Thr
   690            695            700
Cys Cys Cys Cys Cys Ala Thr Gly Ala Cys Ala Thr Cys Thr Ala Thr
705            710            715            720
Gly Thr Gly Ala Thr Thr Gly Gly Cys Ala Cys Cys Cys Ala Gly Gly
            725            730            735
Ala Gly Gly Ala Thr Cys Cys Cys Cys Thr Thr Gly Gly Ala Gly Ala
         740            745            750
Gly Ala Ala Gly Gly Ala Gly Thr Gly Gly Cys Thr Gly Gly Ala Gly
      755            760            765
Cys Thr Ala Cys Thr Cys Ala Gly Gly Cys Ala Cys Thr Cys Cys Cys
   770            775            780
Thr Gly Cys Ala Ala Gly Ala Ala Gly Thr Cys Ala Cys Cys Ala Gly
785            790            795            800
Cys Ala Thr Gly Ala Cys Ala Thr Thr Thr Ala Ala Ala Ala Cys Ala
            805            810            815
Gly Thr Thr Gly Cys Cys Ala Thr Cys Cys Ala Cys Ala Cys Cys Cys
         820            825            830
Thr Cys Thr Gly Gly Ala Ala Cys Ala Thr Thr Cys Gly Cys Ala Thr
      835            840            845
Ala Gly Thr Gly Gly Thr Gly Cys Thr Thr Gly Cys Cys Ala Ala Gly
   850            855            860
Cys Cys Ala Gly Ala Gly Cys Ala Thr Gly Ala Gly Ala Ala Thr Cys
865            870            875            880
Gly Gly Ala Thr Cys Ala Gly Cys Cys Ala Thr Ala Thr Cys Thr Gly
            885            890            895
Cys Ala Cys Thr Gly Ala Cys Ala Ala Cys Gly Thr Gly Ala Ala Gly
         900            905            910
Ala Cys Ala Gly Gly Cys Ala Thr Cys Gly Cys Cys Ala Ala Cys Ala
      915            920            925
Cys Cys Cys Thr Gly Gly Gly Ala Ala Ala Cys Ala Ala Gly Gly Gly
   930            935            940
Ala Gly Cys Ala Gly Thr Gly Gly Gly Ala Gly Thr Gly Thr Cys Cys
945            950            955            960
Thr Thr Cys Ala Thr Gly Thr Thr Cys Ala Ala Thr Gly Gly Ala Ala
            965            970            975
Cys Cys Thr Cys Cys Thr Thr Gly Gly Gly Gly Thr Thr Cys Gly Thr
         980            985            990
Cys Ala Ala Cys Ala Gly Cys Cys  Ala Cys Thr Thr Gly  Ala Cys Thr
      995            1000           1005
Thr Cys  Thr Gly Gly Ala Ala  Gly Cys Gly Ala Ala  Ala Ala Ala
   1010           1015           1020
Ala Ala  Gly Cys Thr Cys Ala  Gly Gly Ala Gly Ala  Ala Ala Thr
   1025           1030           1035
Cys Ala  Ala Ala Ala Cys Thr  Ala Thr Ala Thr Gly  Ala Ala Cys
   1040           1045           1050
Ala Thr  Cys Cys Thr Gly Cys  Gly Gly Thr Thr Cys  Cys Thr Gly
   1055           1060           1065
Gly Cys  Cys Cys Thr Gly Gly  Gly Ala Gly Ala Cys  Ala Ala Gly
```

1070   1075   1080
Ala Ala Gly Cys Thr Ala Ala Gly Cys Cys Cys Ala Thr Thr Thr
    1085   1090   1095
Ala Ala Cys Ala Thr Cys Ala Cys Cys Cys Ala Cys Cys Gly Cys
    1100   1105   1110
Thr Thr Cys Ala Cys Cys Cys Ala Cys Cys Thr Cys Thr Thr Cys
    1115   1120   1125
Thr Gly Gly Cys Thr Thr Gly Gly Gly Gly Ala Thr Cys Thr Cys
    1130   1135   1140
Ala Ala Cys Thr Ala Cys Cys Gly Cys Gly Thr Gly Gly Ala Gly
    1145   1150   1155
Cys Thr Gly Cys Cys Cys Ala Cys Thr Thr Gly Gly Gly Ala Gly
    1160   1165   1170
Gly Cys Ala Gly Ala Gly Gly Cys Cys Ala Thr Cys Ala Thr Cys
    1175   1180   1185
Cys Ala Gly Ala Ala Gly Ala Thr Cys Ala Ala Gly Cys Ala Ala
    1190   1195   1200
Cys Ala Gly Cys Ala Gly Thr Ala Thr Thr Cys Ala Gly Ala Cys
    1205   1210   1215
Cys Thr Thr Cys Thr Gly Gly Cys Cys Cys Ala Cys Gly Ala Cys
    1220   1225   1230
Cys Ala Ala Cys Thr Gly Cys Thr Cys Cys Thr Gly Gly Ala Gly
    1235   1240   1245
Ala Gly Gly Ala Ala Gly Gly Ala Cys Cys Ala Gly Ala Ala Gly
    1250   1255   1260
Gly Thr Cys Thr Thr Cys Cys Thr Gly Cys Ala Cys Thr Thr Thr
    1265   1270   1275
Gly Ala Gly Gly Ala Gly Gly Ala Ala Gly Ala Gly Ala Thr Cys
    1280   1285   1290
Ala Cys Cys Thr Thr Cys Gly Cys Cys Cys Cys Cys Ala Cys Cys
    1295   1300   1305
Thr Ala Thr Cys Gly Ala Thr Thr Thr Gly Ala Ala Ala Gly Ala
    1310   1315   1320
Cys Thr Gly Ala Cys Cys Cys Gly Gly Gly Ala Cys Ala Ala Gly
    1325   1330   1335
Thr Ala Thr Gly Cys Ala Thr Ala Cys Ala Cys Gly Ala Ala Gly
    1340   1345   1350
Cys Ala Gly Ala Ala Ala Gly Cys Ala Ala Cys Ala Gly Gly Gly
    1355   1360   1365
Ala Thr Gly Ala Ala Gly Thr Ala Cys Ala Ala Cys Thr Thr Gly
    1370   1375   1380
Cys Cys Gly Thr Cys Cys Thr Gly Gly Thr Gly Cys Gly Ala Cys
    1385   1390   1395
Cys Gly Ala Gly Thr Cys Cys Thr Cys Thr Gly Gly Ala Ala Gly
    1400   1405   1410
Thr Cys Thr Thr Ala Cys Cys Cys Gly Cys Thr Gly Gly Thr Gly
    1415   1420   1425
Cys Ala Thr Gly Thr Gly Gly Thr Cys Thr Gly Thr Cys Ala Gly
    1430   1435   1440
Thr Cys Cys Thr Ala Thr Gly Gly Cys Ala Gly Thr Ala Cys Cys

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        1445          1450          1455
Ala Gly  Thr Gly Ala Cys Ala  Thr Cys Ala Thr Gly  Ala Cys Gly
        1460          1465          1470
Ala Gly  Thr Gly Ala Cys Cys  Ala Cys Ala Gly Cys  Cys Cys Thr
        1475          1480          1485
Gly Thr  Cys Thr Thr Thr Gly  Cys Cys Ala Cys Gly  Thr Thr Thr
        1490          1495          1500
Gly Ala  Ala Gly Cys Gly Gly  Gly Ala Gly Thr Cys  Ala Cys Ala
        1505          1510          1515
Thr Cys  Thr Cys Ala Ala Thr  Thr Cys Gly Thr Cys  Thr Cys Cys
        1520          1525          1530
Ala Ala  Gly Ala Ala Thr Gly  Gly Thr Cys Cys Thr  Gly Gly Cys
        1535          1540          1545
Ala Cys  Thr Gly Thr Ala Gly  Ala Thr Ala Gly Cys  Cys Ala Ala
        1550          1555          1560
Gly Gly  Gly Cys Ala Gly Ala  Thr Cys Gly Ala Gly  Thr Thr Thr
        1565          1570          1575
Cys Thr  Thr Gly Cys Ala Thr  Gly Cys Thr Ala Cys  Gly Cys Cys
        1580          1585          1590
Ala Cys  Ala Cys Thr Gly Ala  Ala Gly Ala Cys Cys  Ala Ala Gly
        1595          1600          1605
Thr Cys  Cys Cys Ala Gly Ala  Cys Thr Ala Ala Gly  Thr Thr Cys
        1610          1615          1620
Thr Ala  Cys Thr Thr Gly Gly  Ala Gly Thr Thr Cys  Cys Ala Cys
        1625          1630          1635
Thr Cys  Ala Ala Gly Cys Thr  Gly Cys Thr Thr Ala  Gly Ala Gly
        1640          1645          1650
Ala Gly  Thr Thr Thr Thr Gly  Thr Cys Ala Ala Gly  Ala Gly Thr
        1655          1660          1665
Cys Ala  Gly Gly Ala Ala Gly  Gly Ala Gly Ala Gly  Ala Ala Thr
        1670          1675          1680
Gly Ala  Ala Gly Ala Gly Gly  Gly Ala Ala Gly Thr  Gly Ala Ala
        1685          1690          1695
Gly Gly  Ala Gly Ala Gly Cys  Thr Gly Gly Thr Gly  Gly Thr Ala
        1700          1705          1710
Cys Gly  Gly Thr Thr Thr Gly  Gly Ala Gly Ala Gly  Ala Cys Thr
        1715          1720          1725
Cys Thr  Thr Cys Cys Cys Ala  Ala Gly Cys Thr Ala  Ala Ala Gly
        1730          1735          1740
Cys Cys  Cys Ala Thr Thr Ala  Thr Cys Thr Cys Thr  Gly Ala Cys
        1745          1750          1755
Cys Cys  Cys Gly Ala Gly Thr  Ala Cys Thr Thr Ala  Cys Thr Gly
        1760          1765          1770
Gly Ala  Cys Cys Ala Gly Cys  Ala Thr Ala Thr Cys  Cys Thr Gly
        1775          1780          1785
Ala Thr  Cys Ala Gly Cys Ala  Thr Thr Ala Ala Ala  Thr Cys Cys
        1790          1795          1800
Thr Cys  Thr Gly Ala Cys Ala  Gly Thr Gly Ala Cys  Gly Ala Gly
        1805          1810          1815
Thr Cys  Cys Thr Ala Thr Gly  Gly Thr Gly Ala Ala  Gly Gly Cys
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        1820            1825            1830
Thr Gly  Cys Ala Thr Thr Gly  Cys Cys Cys Thr Thr  Cys Gly Cys
        1835            1840            1845
Thr Thr  Gly Gly Ala Gly Ala  Cys Cys Ala Cys Ala  Gly Ala Gly
        1850            1855            1860
Gly Cys  Thr Cys Ala Gly Cys  Ala Thr Cys Cys Thr  Ala Thr Cys
        1865            1870            1875
Thr Ala  Cys Ala Cys Gly Cys  Cys Thr Cys Thr Cys  Ala Cys Cys
        1880            1885            1890
Cys Ala  Cys Cys Ala Thr Gly  Gly Gly Gly Ala Gly  Ala Thr Gly
        1895            1900            1905
Ala Cys  Thr Gly Gly Cys Cys  Ala Cys Thr Thr Cys  Ala Gly Gly
        1910            1915            1920
Gly Gly  Ala Gly Ala Gly Ala  Thr Thr Ala Ala Gly  Cys Thr Gly
        1925            1930            1935
Cys Ala  Gly Ala Cys Cys Thr  Cys Cys Cys Ala Gly  Gly Gly Cys
        1940            1945            1950
Ala Ala  Gly Ala Thr Gly Ala  Gly Gly Gly Ala Gly  Ala Ala Gly
        1955            1960            1965
Cys Thr  Cys Thr Ala Thr Gly  Ala Cys Thr Thr Thr  Gly Thr Gly
        1970            1975            1980
Ala Ala  Gly Ala Cys Ala Gly  Ala Gly Cys Gly Gly  Gly Ala Thr
        1985            1990            1995
Gly Ala  Ala Thr Cys Cys Ala  Gly Thr Gly Gly Ala  Ala Thr Gly
        2000            2005            2010
Ala Ala  Ala Thr Gly Cys Thr  Thr Gly Ala Ala Gly  Ala Ala Cys
        2015            2020            2025
Cys Thr  Cys Ala Cys Cys Ala  Gly Cys Cys Ala Thr  Gly Ala Cys
        2030            2035            2040
Cys Cys  Thr Ala Thr Gly Ala  Gly Gly Cys Ala Ala  Thr Gly Gly
        2045            2050            2055
Gly Ala  Gly Cys Cys Thr Thr  Cys Thr Gly Gly Cys  Ala Gly Gly
        2060            2065            2070
Gly Thr  Cys Cys Cys Thr Gly  Cys Ala Thr Gly Thr  Gly Gly Thr
        2075            2080            2085
Gly Thr  Cys Thr Cys Cys Ala  Gly Cys Cys Thr Cys  Ala Ala Thr
        2090            2095            2100
Gly Ala  Gly Ala Thr Gly Ala  Thr Cys Ala Ala Thr  Cys Cys Ala
        2105            2110            2115
Ala Ala  Cys Thr Ala Cys Ala  Thr Thr Gly Cys Cys  Ala Ala Cys
        2120            2125            2130
Cys Gly  Ala Gly Gly Thr Cys  Cys Cys Thr Gly Cys  Cys Cys Cys
        2135            2140            2145
Ala Gly  Gly Gly Thr Gly Cys  Ala Ala Gly Ala Gly  Gly Cys Ala
        2150            2155            2160
Ala Gly  Ala Cys Cys Thr Gly  Gly Gly Gly Ala Thr  Cys Thr Gly
        2165            2170            2175
Gly Gly  Ala Ala Ala Gly Gly  Thr Gly Gly Ala Ala  Gly Cys Thr
        2180            2185            2190
Cys Thr  Gly Cys Thr Cys Cys  Ala Gly Gly Ala Gly  Gly Ala Cys
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              2195            2200            2205
Cys Thr  Gly Cys Thr Gly Cys  Thr Gly Ala Cys Gly  Ala Ala Gly
              2210            2215            2220
Cys Cys  Cys Gly Ala Gly Ala  Thr Gly Thr Thr Thr  Gly Ala Gly
              2225            2230            2235
Ala Ala  Cys Cys Cys Ala Cys  Thr Gly Thr Ala Thr  Gly Gly Ala
              2240            2245            2250
Thr Cys  Cys Gly Thr Gly Ala  Gly Thr Thr Cys Cys  Thr Thr Cys
              2255            2260            2265
Cys Cys  Thr Ala Ala Gly Cys  Thr Gly Gly Thr Gly  Cys Cys Cys
              2270            2275            2280
Ala Gly  Gly Ala Ala Ala Gly  Ala Gly Cys Ala Gly  Gly Ala Gly
              2285            2290            2295
Thr Cys  Thr Cys Cys Cys Ala  Ala Gly Ala Thr Gly  Cys Thr Gly
              2300            2305            2310
Cys Gly  Gly Ala Ala Gly Gly  Ala Gly Cys Cys Cys  Cys Cys Gly
              2315            2320            2325
Cys Cys  Cys Thr Gly Thr Cys  Cys Ala Gly Ala Cys  Cys Cys Ala
              2330            2335            2340
Gly Gly  Ala Ala Thr Cys Thr  Cys Ala Thr Cys Ala  Cys Cys Cys
              2345            2350            2355
Ala Gly  Cys Ala Thr Cys Gly  Thr Gly Cys Thr Cys  Cys Cys Cys
              2360            2365            2370
Ala Ala  Ala Gly Cys Cys Cys  Ala Ala Gly Ala Gly  Gly Thr Gly
              2375            2380            2385
Gly Ala  Gly Ala Gly Thr Gly  Thr Cys Ala Ala Gly  Gly Gly Gly
              2390            2395            2400
Ala Cys  Ala Ala Gly Cys Ala  Ala Ala Cys Ala Gly  Gly Cys Cys
              2405            2410            2415
Cys Cys  Thr Gly Thr Gly Cys  Cys Thr Gly Thr Cys  Cys Thr Thr
              2420            2425            2430
Gly Gly  Cys Cys Cys Cys Ala  Cys Ala Cys Cys Cys  Cys Gly Gly
              2435            2440            2445
Ala Thr  Cys Cys Gly Cys Thr  Cys Cys Thr Thr Thr  Ala Cys Cys
              2450            2455            2460
Thr Gly  Thr Thr Cys Thr Thr  Cys Thr Thr Cys Thr  Gly Cys Thr
              2465            2470            2475
Gly Ala  Gly Gly Gly Cys Ala  Gly Ala Ala Thr Gly  Ala Cys Cys
              2480            2485            2490
Ala Gly  Thr Gly Gly Gly Gly  Ala Cys Ala Ala Gly  Ala Gly Cys
              2495            2500            2505
Cys Ala  Ala Gly Gly Gly Ala  Ala Gly Cys Cys Cys  Ala Ala Gly
              2510            2515            2520
Gly Cys  Cys Thr Cys Ala Gly  Cys Cys Ala Gly Thr  Thr Cys Cys
              2525            2530            2535
Cys Ala  Ala Gly Cys Cys Cys  Cys Ala Gly Thr Gly  Cys Cys Ala
              2540            2545            2550
Gly Thr  Cys Ala Ala Gly Ala  Gly Gly Cys Cys Thr  Gly Thr Cys
              2555            2560            2565
Ala Ala  Gly Cys Cys Thr Thr  Cys Cys Ala Gly Gly  Thr Cys Ala
```

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        2570            2575            2580
Gly Ala  Ala Ala Thr Gly Ala  Gly Cys Cys Ala Gly  Cys Ala Gly
        2585            2590            2595
Ala Cys  Ala Ala Cys Ala Cys  Cys Cys Ala Thr Cys  Cys Cys Ala
        2600            2605            2610
Gly Cys  Thr Cys Cys Ala Cys  Gly Gly Cys Cys Ala  Cys Cys Cys
        2615            2620            2625
Cys Thr  Gly Cys Cys Ala Gly  Thr Cys Ala Ala Gly  Ala Gly Thr
        2630            2635            2640
Cys Cys  Thr Gly Cys Thr Gly  Thr Cys Cys Thr Gly  Cys Ala Gly
        2645            2650            2655
Cys Thr  Gly Cys Ala Ala Cys  Ala Thr Thr Cys Cys  Ala Ala Ala
        2660            2665            2670
Gly Gly  Cys Ala Gly Ala Gly  Ala Cys Thr Ala Cys  Cys Gly Thr
        2675            2680            2685
Gly Ala  Cys Ala Ala Cys Ala  Cys Ala Gly Ala Ala  Cys Thr Cys
        2690            2695            2700
Cys Cys  Cys Cys Ala Cys Cys  Ala Thr Gly Gly Cys  Ala Ala Gly
        2705            2710            2715
Cys Ala  Cys Cys Gly Cys Cys  Ala Ala Gly Ala Gly  Gly Ala Gly
        2720            2725            2730
Gly Gly  Gly Cys Thr Gly Cys  Thr Thr Gly Gly Cys  Ala Gly Gly
        2735            2740            2745
Ala Cys  Thr Gly Cys Cys Ala  Thr Gly Cys Ala Gly  Thr Gly Ala
        2750            2755            2760
Gly Cys  Thr Gly Cys Thr Gly  Gly Thr Gly Ala Thr  Cys Gly Gly
        2765            2770            2775
Ala Gly  Cys Cys Thr Gly Gly  Ala Gly Gly Ala Ala  Cys Ala Gly
        2780            2785            2790
Cys Ala  Cys Ala Ala Ala Gly  Cys Ala Gly Ala Cys  Cys Thr Gly
        2795            2800            2805
Cys Gly  Cys Cys Thr Cys Thr  Cys Thr Cys Ala Gly  Gly Ala Thr
        2810            2815            2820
Gly Cys  Cys Thr Cys Thr Cys  Thr Cys Ala Gly Gly  Ala Thr Gly
        2825            2830            2835
Cys Cys  Thr Cys Thr Thr Gly  Gly Ala Gly Gly Ala  Cys Cys Thr
        2840            2845            2850
Cys Cys  Thr Gly Cys Thr Ala  Gly Cys Thr Cys Thr  Thr Cys Thr
        2855            2860            2865
Thr Gly  Cys Cys Thr Ala Gly  Cys Thr Thr Cys Ala  Ala Gly Thr
        2870            2875            2880
Cys Cys  Cys Ala Gly Gly Cys  Thr Gly Thr Gly Thr  Ala Thr Thr
        2885            2890            2895
Thr Thr  Thr Thr Thr Thr Cys  Ala Gly Gly Ala Ala  Ala Cys Gly
        2900            2905            2910
Gly Cys  Cys Thr Cys Ala Cys  Thr Thr Cys Thr Cys  Thr Gly Thr
        2915            2920            2925
Gly Gly  Thr Cys Cys Ala Ala  Gly Ala Ala Gly Thr  Gly Thr Gly
        2930            2935            2940
Cys Thr  Gly Cys Thr Gly Gly  Cys Thr Gly Cys Cys  Ala Cys Ala
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        2945            2950            2955
Cys Thr  Gly Thr Gly Cys Gly  Gly Cys Ala Gly Ala  Thr Gly Cys
        2960            2965            2970
Thr Ala  Ala Ala Gly Cys Thr  Gly Gly Ala Thr Gly  Ala Cys Ala
        2975            2980            2985
Ala Ala  Cys Gly Cys Ala Cys  Gly Cys Cys Ala Thr  Ala Cys Ala
        2990            2995            3000
Gly Ala  Cys Ala Gly Cys Ala  Gly Ala Cys Ala Gly  Cys Gly Gly
        3005            3010            3015
Cys Ala  Cys Thr Gly Gly Gly  Thr Cys Thr Cys Ala  Gly Ala Ala
        3020            3025            3030
Cys Thr  Thr Gly Gly Ala Thr  Thr Cys Cys Thr Gly  Gly Gly Cys
        3035            3040            3045
Cys Thr  Thr Cys Thr Thr Cys  Cys Ala Gly Thr Cys  Gly Cys Cys
        3050            3055            3060
Gly Thr  Thr Thr Thr Ala Ala  Ala Gly Ala Ala Ala  Gly Gly Ala
        3065            3070            3075
Ala Cys  Thr Ala Ala Cys Gly  Gly Ala Gly Cys Thr  Gly Cys Thr
        3080            3085            3090
Cys Ala  Thr Cys Cys Gly Ala  Gly Gly Gly Thr Gly  Ala Ala Gly
        3095            3100            3105
Ala Thr  Ala Thr Ala Ala Ala  Thr Ala Ala Thr Ala  Ala Thr Ala
        3110            3115            3120
Thr Thr  Ala Thr Thr Ala Ala  Thr Ala Ala Thr Ala  Ala Thr Ala
        3125            3130            3135
Ala Cys  Ala Gly Thr Cys Ala  Gly Gly Thr Gly Cys  Cys Ala Thr
        3140            3145            3150
Gly Thr  Gly Cys Thr Gly Thr  Gly Thr Thr Ala Ala  Gly Thr Gly
        3155            3160            3165
Cys Thr  Thr Thr Ala Thr Gly  Ala Ala Cys Ala Thr  Thr Thr Gly
        3170            3175            3180
Thr Cys  Gly Gly Gly Cys Thr  Gly Gly Cys Cys Thr  Cys Cys Ala
        3185            3190            3195
Gly Thr  Gly Cys Thr Gly Ala  Gly Gly Thr Gly Cys  Cys Ala Gly
        3200            3205            3210
Thr Cys  Ala Gly Cys Cys Thr  Gly Ala Ala Cys Cys  Cys Thr Ala
        3215            3220            3225
Thr Gly  Cys Cys Cys Ala Gly  Gly Cys Cys Cys Ala  Cys Thr Ala
        3230            3235            3240
Ala Thr  Cys Cys Cys Ala Ala  Ala Thr Gly Gly Thr  Gly Gly Gly
        3245            3250            3255
Thr Cys  Cys Thr Gly Ala Gly  Ala Thr Gly Thr Thr  Thr Thr Thr
        3260            3265            3270
Ala Ala  Ala Ala Ala Gly Cys  Ala Thr Thr Ala Ala  Ala Gly Ala
        3275            3280            3285
Ala Ala  Ala Cys Cys Ala Thr  Cys Gly Gly Thr Cys  Thr Cys Thr
        3290            3295            3300
Thr Ala  Gly Ala Gly Cys Thr  Ala Ala Cys Cys Gly  Gly Cys Cys
        3305            3310            3315
Gly Gly  Gly Cys Thr Cys Thr  Ala Cys Thr Gly Cys  Ala Gly Gly
```

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        3320          3325          3330
Gly Ala  Cys Cys Cys Gly Ala  Ala Cys Ala Gly Thr  Cys Thr Gly
        3335          3340          3345
Cys Ala  Thr Gly Gly Cys Thr  Ala Ala Gly Thr Gly  Gly Cys Ala
        3350          3355          3360
Cys Ala  Ala Gly Gly Ala Gly  Cys Cys Thr Gly Gly  Cys Cys Cys
        3365          3370          3375
Thr Gly  Thr Cys Cys Ala Gly  Cys Thr Thr Cys Ala  Gly Ala Gly
        3380          3385          3390
Ala Thr  Cys Cys Ala Ala Gly  Cys Thr Gly Cys Thr  Thr Thr Thr
        3395          3400          3405
Thr Gly  Cys Thr Gly Gly Gly  Gly Thr Thr Cys Thr  Gly Thr Cys
        3410          3415          3420
Ala Cys  Ala Gly Gly Cys Cys  Thr Gly Ala Thr Cys  Cys Thr Cys
        3425          3430          3435
Thr Thr  Gly Gly Thr Thr Thr  Thr Thr Ala Thr Gly  Gly Gly Gly
        3440          3445          3450
Thr Thr  Thr Cys Ala Ala Gly  Thr Cys Thr Gly Cys  Cys Ala Gly
        3455          3460          3465
Ala Gly  Thr Cys Ala Gly Ala  Ala Ala Thr Cys Ala  Gly Cys Thr
        3470          3475          3480
Cys Thr  Ala Ala Cys Thr Cys  Gly Cys Cys Ala Gly  Thr Gly Ala
        3485          3490          3495
Ala Gly  Ala Gly Ala Thr Cys  Thr Gly Gly Cys Cys  Thr Thr Ala
        3500          3505          3510
Ala Cys  Thr Thr Ala Ala Gly  Cys Cys Ala Gly Cys  Cys Ala Cys
        3515          3520          3525
Gly Thr  Cys Ala Gly Gly Cys  Cys Cys Cys Thr Gly  Cys Thr Gly
        3530          3535          3540
Ala Gly  Cys Cys Thr Ala Thr  Gly Gly Ala Cys Cys  Ala Ala Thr
        3545          3550          3555
Ala Ala  Ala Thr Ala Cys Thr  Cys Cys Cys Cys Gly  Thr Gly Cys
        3560          3565          3570
Cys Ala  Cys Thr Gly Gly Ala  Gly Gly Thr Gly Gly  Gly Cys Ala
        3575          3580          3585
Gly Cys  Thr Ala Thr Cys Ala  Cys Cys Ala Thr Ala  Cys Cys Cys
        3590          3595          3600
Thr Gly  Ala Gly Thr Thr Gly  Gly Gly Cys Cys Ala  Ala Gly Cys
        3605          3610          3615
Cys Cys  Ala Cys Cys Cys Cys  Ala Cys Cys Cys Cys  Thr Ala Cys
        3620          3625          3630
Cys Cys  Thr Gly Cys Ala Ala  Cys Ala Thr Thr Thr  Cys Thr Gly
        3635          3640          3645
Ala Thr  Gly Thr Trp Cys Thr  Gly Ala Gly Gly Ala  Ala Gly Ala
        3650          3655          3660
Gly Thr  Cys Thr Cys Cys Ala  Cys Cys Ala Thr Ala  Gly Thr Cys
        3665          3670          3675
Cys Cys  Cys Ala Ala Gly Gly  Gly Cys Thr Gly Ala  Gly Thr Thr
        3680          3685          3690
Cys Thr  Cys Cys Ala Gly Cys  Cys Thr Gly Cys Thr  Ala Thr Cys
```

```
            3695          3700          3705
Ala Gly  Gly Gly Ala Ala Gly  Gly Thr Gly Ala Gly  Cys Ala Thr
            3710          3715          3720
Thr Gly  Gly Thr Cys Cys Cys  Ala Gly Gly Cys Thr  Cys Thr Cys
            3725          3730          3735
Ala Ala  Ala Ala Thr Ala Gly  Thr Gly Cys Ala Gly  Cys Cys Thr
            3740          3745          3750
Cys Thr  Thr Cys Thr Thr Cys  Cys Cys Ala Ala Gly  Cys Thr Cys
            3755          3760          3765
Thr Gly  Gly Gly Gly Thr Gly  Cys Ala Cys Cys Cys  Thr Gly Thr
            3770          3775          3780
Gly Thr  Cys Cys Thr Thr Gly  Gly Thr Thr Ala Cys  Cys Ala Gly
            3785          3790          3795
Gly Ala  Gly Ala Cys Thr Ala  Gly Gly Gly Thr Thr  Gly Thr Gly
            3800          3805          3810
Ala Thr  Ala Thr Cys Thr Thr  Thr Thr Cys Thr Thr  Gly Thr Cys
            3815          3820          3825
Thr Thr  Gly Cys Thr Thr Thr  Thr Thr Gly Ala Thr  Ala Thr Ala
            3830          3835          3840
Thr Cys  Ala Gly Gly Ala Thr  Thr Ala Ala Thr Gly  Thr Ala Gly
            3845          3850          3855
Gly Ala  Ala Ala Cys Cys Ala  Gly Ala Cys Cys Thr  Ala Gly Ala
            3860          3865          3870
Thr Thr  Ala Thr Thr Cys Ala  Gly Gly Ala Gly Ala  Gly Thr Ala
            3875          3880          3885
Gly Gly  Thr Ala Thr Ala Thr  Cys Cys Cys Cys Thr  Gly Thr Gly
            3890          3895          3900
Thr Thr  Thr Cys Cys Cys Ala  Gly Thr Cys Thr Gly  Ala Gly Thr
            3905          3910          3915
Gly Ala  Cys Cys Ala Ala Thr  Ala Ala Ala Ala Thr  Thr Gly Thr
            3920          3925          3930
Gly Cys  Cys Thr Thr Thr Cys  Thr Ala
            3935          3940
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<211> 4147
<212> PRT
<213> Human
<223> Sequence of the human s-SHIP isoform of SHIP.
<400> 3
Cys Gly Cys Cys Cys Ala Cys Thr Ala Ala Thr Cys Cys Thr Thr Gly
1              5              10             15
Ala Thr Gly Thr Thr Cys Ala Cys Cys Thr Thr Gly Thr Cys Cys Cys
        20             25             30
Cys Thr Gly Cys Cys Cys Cys Ala Gly Ala Gly Ala Ala Gly Thr
         35             40             45
Cys Ala Thr Cys Cys Gly Gly Ala Cys Cys Cys Thr Cys Cys Cys Ala
    50             55             60
Thr Cys Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys Thr Gly Cys
65             70             75             80
Ala Gly Ala Gly Gly Thr Thr Ala Thr Thr Thr Gly Ala Cys Cys Ala
```

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                85              90              95
Gly Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Cys Gly Gly Gly Cys
         100             105             110
Cys Thr Cys Cys Gly Thr Cys Cys Ala Cys Gly Thr Cys Cys Thr Cys
        115             120             125
Ala Gly Gly Thr Thr Cys Cys Thr Gly Gly Thr Gly Ala Gly Gly Cys
130             135             140
Cys Ala Ala Thr Cys Cys Cys Ala Thr Cys Ala Ala Cys Ala Thr Gly
145             150             155             160
Gly Thr Gly Thr Cys Cys Ala Ala Gly Cys Thr Cys Ala Gly Cys Cys
            165             170             175
Ala Ala Cys Thr Gly Ala Cys Ala Ala Gly Cys Cys Thr Gly Thr Thr
            180             185             190
Gly Thr Cys Ala Thr Cys Cys Ala Thr Thr Gly Ala Ala Gly Ala Cys
         195             200             205
Ala Ala Gly Gly Thr Cys Ala Ala Gly Gly Cys Cys Thr Thr Gly Cys
         210             215             220
Thr Gly Cys Ala Cys Gly Ala Gly Gly Gly Thr Cys Cys Thr Gly Ala
225             230             235             240
Gly Thr Cys Thr Cys Cys Gly Cys Ala Cys Cys Gly Gly Cys Cys Cys
            245             250             255
Thr Cys Cys Cys Thr Thr Ala Thr Cys Cys Cys Thr Cys Cys Ala Gly
            260             265             270
Thr Cys Ala Cys Cys Thr Thr Thr Gly Ala Gly Gly Thr Gly Ala Ala
         275             280             285
Gly Gly Cys Ala Gly Ala Gly Thr Cys Thr Cys Thr Gly Gly Gly Gly
         290             295             300
Ala Thr Thr Cys Cys Thr Cys Ala Gly Ala Ala Ala Ala Thr Gly Cys
305             310             315             320
Ala Gly Cys Thr Cys Ala Ala Ala Gly Thr Cys Gly Ala Cys Gly Thr
            325             330             335
Thr Gly Ala Gly Thr Cys Thr Gly Gly Gly Ala Ala Ala Cys Thr Gly
         340             345             350
Ala Thr Cys Ala Thr Thr Ala Ala Gly Ala Ala Gly Thr Cys Cys Ala
         355             360             365
Ala Gly Gly Ala Thr Gly Gly Thr Thr Cys Thr Gly Ala Gly Gly Ala
         370             375             380
Cys Ala Ala Gly Thr Thr Cys Thr Ala Cys Ala Gly Cys Cys Ala Cys
385             390             395             400
Ala Ala Gly Ala Ala Ala Ala Thr Cys Cys Thr Gly Cys Ala Gly Cys
            405             410             415
Thr Cys Ala Thr Thr Ala Ala Gly Thr Cys Ala Cys Ala Gly Ala Ala
            420             425             430
Ala Thr Thr Thr Cys Thr Gly Ala Ala Thr Ala Ala Gly Thr Thr Gly
            435             440             445
Gly Thr Gly Ala Thr Cys Thr Thr Gly Gly Thr Gly Gly Ala Ala Ala
         450             455             460
Cys Ala Gly Ala Gly Ala Ala Gly Gly Ala Gly Ala Ala Gly Ala Thr
465             470             475             480
Cys Cys Thr Gly Cys Gly Gly Ala Ala Gly Gly Ala Ala Thr Ala Thr
```

```
              485           490           495
Gly Thr Thr Thr Thr Thr Gly Cys Thr Gly Ala Cys Thr Cys Cys Ala
         500           505           510
Ala Ala Ala Ala Gly Ala Gly Ala Gly Ala Ala Gly Gly Cys Thr Thr
      515           520           525
Cys Thr Gly Cys Cys Ala Gly Cys Thr Cys Cys Thr Gly Cys Ala Gly
   530           535           540
Cys Ala Gly Ala Thr Gly Ala Ala Gly Ala Ala Cys Ala Ala Gly Cys
545           550           555           560
Ala Cys Thr Cys Ala Gly Ala Gly Cys Ala Gly Cys Cys Gly Gly Ala
         565           570           575
Gly Cys Cys Cys Gly Ala Cys Ala Thr Gly Ala Thr Cys Ala Cys Cys
          580           585           590
Ala Thr Cys Thr Thr Cys Ala Thr Cys Gly Gly Cys Ala Cys Cys Thr
      595           600           605
Gly Gly Ala Ala Cys Ala Thr Gly Gly Gly Thr Ala Ala Cys Gly Cys
   610           615           620
Cys Cys Cys Cys Cys Cys Thr Cys Cys Cys Ala Ala Gly Ala Ala Gly
625           630           635           640
Ala Thr Cys Ala Cys Gly Thr Cys Cys Thr Gly Gly Thr Thr Thr Cys
            645           650           655
Thr Cys Thr Cys Cys Ala Ala Gly Gly Gly Cys Ala Gly Gly Gly
         660           665           670
Ala Ala Ala Gly Ala Cys Gly Cys Gly Gly Gly Ala Cys Gly Ala Cys
          675           680           685
Thr Cys Thr Gly Cys Gly Gly Ala Cys Thr Ala Cys Ala Thr Cys Cys
   690           695           700
Cys Cys Cys Ala Thr Gly Ala Cys Ala Thr Thr Thr Ala Cys Gly Thr
705           710           715           720
Gly Ala Thr Cys Gly Gly Cys Ala Cys Cys Cys Ala Ala Gly Ala Gly
            725           730           735
Gly Ala Cys Cys Cys Cys Cys Thr Gly Ala Gly Thr Gly Ala Gly Ala
         740           745           750
Ala Gly Gly Ala Gly Thr Gly Gly Cys Thr Gly Gly Ala Gly Ala Thr
      755           760           765
Cys Cys Thr Cys Ala Ala Ala Cys Ala Cys Thr Cys Cys Cys Thr Gly
   770           775           780
Cys Ala Ala Gly Ala Ala Ala Thr Cys Ala Cys Cys Ala Gly Thr Gly
785           790           795           800
Thr Gly Ala Cys Thr Thr Thr Thr Ala Ala Ala Ala Cys Ala Gly Thr
            805           810           815
Cys Gly Cys Cys Ala Thr Cys Cys Ala Cys Ala Cys Gly Cys Thr Cys
         820           825           830
Thr Gly Gly Ala Ala Cys Ala Thr Cys Cys Gly Cys Ala Thr Cys Gly
         835           840           845
Thr Gly Gly Thr Gly Cys Thr Gly Gly Cys Cys Ala Ala Gly Cys Cys
   850           855           860
Thr Gly Ala Gly Cys Ala Cys Gly Ala Gly Ala Ala Cys Cys Gly Gly
865           870           875           880
Ala Thr Cys Ala Gly Cys Cys Ala Cys Ala Thr Cys Thr Gly Thr Ala
```

```
              885           890           895
Cys Thr Gly Ala Cys Ala Ala Cys Gly Thr Gly Ala Ala Gly Ala Cys
          900           905           910
Ala Gly Gly Cys Ala Thr Thr Gly Cys Ala Ala Ala Cys Ala Cys Ala
        915           920           925
Cys Thr Gly Gly Gly Gly Ala Ala Cys Ala Ala Gly Gly Gly Ala Gly
      930           935           940
Cys Cys Gly Thr Gly Gly Gly Gly Thr Gly Thr Cys Gly Thr Thr
945           950           955           960
Cys Ala Thr Gly Thr Thr Cys Ala Ala Thr Gly Gly Ala Ala Cys Cys
          965           970           975
Thr Cys Cys Thr Thr Ala Gly Gly Gly Thr Thr Cys Gly Thr Cys Ala
        980           985           990
Ala Cys Ala Gly Cys Cys Ala Cys  Thr Thr Gly Ala Cys  Thr Thr Cys
      995          1000          1005
Ala Gly  Gly Ala Ala Gly Thr  Gly Ala Ala Ala Ala  Gly Ala Ala
      1010          1015          1020
Ala Cys  Thr Cys Ala Gly Gly  Cys Gly Ala Ala Ala  Cys Cys Ala
      1025          1030          1035
Ala Ala  Ala Cys Thr Ala Thr  Ala Thr Gly Ala Ala  Cys Ala Thr
      1040          1045          1050
Thr Cys  Thr Cys Cys Gly Gly  Thr Thr Cys Cys Thr  Gly Gly Cys
      1055          1060          1065
Cys Cys  Thr Gly Gly Gly Cys  Gly Ala Cys Ala Ala  Gly Ala Ala
      1070          1075          1080
Gly Cys  Thr Gly Ala Gly Thr  Cys Cys Cys Thr Thr  Thr Ala Ala
      1085          1090          1095
Cys Ala  Thr Cys Ala Cys Thr  Cys Ala Cys Cys Gly  Cys Thr Thr
      1100          1105          1110
Cys Ala  Cys Gly Cys Ala Cys  Cys Thr Cys Thr Thr  Cys Thr Gly
      1115          1120          1125
Gly Thr  Thr Thr Gly Gly Gly  Gly Ala Thr Cys Thr  Thr Ala Ala
      1130          1135          1140
Cys Thr  Ala Cys Cys Gly Thr  Gly Thr Gly Gly Ala  Thr Cys Thr
      1145          1150          1155
Gly Cys  Cys Thr Ala Cys Cys  Thr Gly Gly Gly Ala  Gly Gly Cys
      1160          1165          1170
Ala Gly  Ala Ala Ala Cys Cys  Ala Thr Cys Ala Thr  Cys Cys Ala
      1175          1180          1185
Gly Ala  Ala Ala Ala Thr Cys  Ala Ala Gly Cys Ala  Gly Cys Ala
      1190          1195          1200
Gly Cys  Ala Gly Thr Ala Cys  Gly Cys Ala Gly Ala  Cys Cys Thr
      1205          1210          1215
Cys Cys  Thr Gly Thr Cys Cys  Cys Ala Cys Gly Ala  Cys Cys Ala
      1220          1225          1230
Gly Cys  Thr Gly Cys Thr Cys  Ala Cys Ala Gly Ala  Gly Ala Gly
      1235          1240          1245
Gly Ala  Gly Gly Gly Ala Gly  Cys Ala Gly Ala Ala  Gly Gly Thr
      1250          1255          1260
Cys Thr  Thr Cys Cys Thr Ala  Cys Ala Cys Thr Thr  Cys Gly Ala
```

```
         1265            1270            1275
Gly Gly  Ala Gly Gly Ala Ala  Gly Ala Ala Ala Thr  Cys Ala Cys
         1280            1285            1290
Gly Thr  Thr Thr Gly Cys Cys  Cys Cys Ala Ala Cys  Cys Thr Ala
         1295            1300            1305
Cys Cys  Gly Thr Thr Thr Thr  Gly Ala Gly Ala Gly  Ala Cys Thr
         1310            1315            1320
Gly Ala  Cys Thr Cys Gly Gly  Gly Ala Cys Ala Ala  Ala Thr Ala
         1325            1330            1335
Cys Gly  Cys Cys Thr Ala Cys  Ala Cys Cys Ala Ala  Gly Cys Ala
         1340            1345            1350
Gly Ala  Ala Ala Gly Cys Gly  Ala Cys Ala Gly Gly  Gly Ala Thr
         1355            1360            1365
Gly Ala  Ala Gly Thr Ala Cys  Ala Ala Cys Thr Thr  Gly Cys Cys
         1370            1375            1380
Thr Thr  Cys Cys Thr Gly Gly  Thr Gly Thr Gly Ala  Cys Cys Gly
         1385            1390            1395
Ala Gly  Thr Cys Cys Thr Cys  Thr Gly Gly Ala Ala  Gly Thr Cys
         1400            1405            1410
Thr Thr  Ala Thr Cys Cys Cys  Cys Thr Gly Gly Thr  Gly Cys Ala
         1415            1420            1425
Cys Gly  Thr Gly Gly Thr Gly  Thr Gly Thr Cys Ala  Gly Thr Cys
         1430            1435            1440
Thr Thr  Ala Thr Gly Gly Cys  Ala Gly Thr Ala Cys  Cys Ala Gly
         1445            1450            1455
Cys Gly  Ala Cys Ala Thr Cys  Ala Thr Gly Ala Cys  Gly Ala Gly
         1460            1465            1470
Thr Gly  Ala Cys Cys Ala Cys  Ala Gly Cys Cys Cys  Thr Gly Thr
         1475            1480            1485
Cys Thr  Thr Thr Gly Cys Cys  Ala Cys Ala Thr Thr  Thr Gly Ala
         1490            1495            1500
Gly Gly  Cys Ala Gly Gly Ala  Gly Thr Cys Ala Cys  Thr Thr Cys
         1505            1510            1515
Cys Cys  Ala Gly Thr Thr Thr  Gly Thr Cys Thr Cys  Cys Ala Ala
         1520            1525            1530
Gly Ala  Ala Cys Gly Gly Thr  Cys Cys Cys Gly Gly  Gly Ala Cys
         1535            1540            1545
Thr Gly  Thr Thr Gly Ala Cys  Ala Gly Cys Cys Ala  Ala Gly Gly
         1550            1555            1560
Ala Cys  Ala Gly Ala Thr Thr  Gly Ala Gly Thr Thr  Thr Cys Thr
         1565            1570            1575
Cys Ala  Gly Gly Thr Gly Cys  Thr Ala Thr Gly Cys  Cys Ala Cys
         1580            1585            1590
Ala Thr  Thr Gly Ala Ala Gly  Ala Cys Cys Ala Ala  Gly Thr Cys
         1595            1600            1605
Cys Cys  Ala Gly Ala Cys Cys  Ala Ala Ala Thr Thr  Cys Thr Ala
         1610            1615            1620
Cys Cys  Thr Gly Gly Ala Gly  Thr Thr Cys Cys Ala  Cys Thr Cys
         1625            1630            1635
Gly Ala  Gly Cys Thr Gly Cys  Thr Thr Gly Gly Ala  Gly Ala Gly
```

```
          1640          1645          1650
Thr Thr  Thr Thr Gly Thr Cys  Ala Ala Gly Ala Gly  Thr Cys Ala
          1655          1660          1665
Gly Gly  Ala Ala Gly Gly Ala  Gly Ala Ala Ala Ala  Thr Gly Ala
          1670          1675          1680
Ala Gly  Ala Ala Gly Gly Ala  Ala Gly Thr Gly Ala  Gly Gly Gly
          1685          1690          1695
Gly Gly  Ala Gly Cys Thr Gly  Gly Thr Gly Gly Thr  Gly Ala Ala
          1700          1705          1710
Gly Thr  Thr Thr Gly Gly Thr  Gly Ala Gly Ala Cys  Thr Cys Thr
          1715          1720          1725
Thr Cys  Cys Ala Ala Ala Gly  Cys Thr Gly Ala Ala  Gly Cys Cys
          1730          1735          1740
Cys Ala  Thr Thr Ala Thr Cys  Thr Cys Thr Gly Ala  Cys Cys Cys
          1745          1750          1755
Thr Gly  Ala Gly Thr Ala Cys  Cys Thr Gly Cys Thr  Ala Gly Ala
          1760          1765          1770
Cys Cys  Ala Gly Cys Ala Cys  Ala Thr Cys Cys Thr  Cys Ala Thr
          1775          1780          1785
Cys Ala  Gly Cys Ala Thr Cys  Ala Ala Gly Thr Cys  Cys Thr Cys
          1790          1795          1800
Thr Gly  Ala Cys Ala Gly Cys  Gly Ala Cys Gly Ala  Ala Thr Cys
          1805          1810          1815
Cys Thr  Ala Thr Gly Gly Cys  Gly Ala Gly Gly Gly  Cys Thr Gly
          1820          1825          1830
Cys Ala  Thr Thr Gly Cys Cys  Cys Thr Thr Cys Gly  Gly Thr Thr
          1835          1840          1845
Ala Gly  Ala Gly Gly Cys Cys  Ala Cys Ala Gly Ala  Ala Ala Cys
          1850          1855          1860
Gly Cys  Ala Gly Cys Thr Gly  Cys Cys Cys Ala Thr  Cys Thr Ala
          1865          1870          1875
Cys Ala  Cys Gly Cys Cys Thr  Cys Thr Cys Ala Cys  Cys Cys Ala
          1880          1885          1890
Cys Cys  Ala Thr Gly Gly Gly  Gly Ala Gly Thr Thr  Gly Ala Cys
          1895          1900          1905
Ala Gly  Gly Cys Cys Ala Cys  Thr Thr Cys Cys Ala  Gly Gly Gly
          1910          1915          1920
Gly Gly  Ala Gly Ala Thr Cys  Ala Ala Gly Cys Thr  Gly Cys Ala
          1925          1930          1935
Gly Ala  Cys Cys Thr Cys Thr  Cys Ala Gly Gly Gly  Cys Ala Ala
          1940          1945          1950
Gly Ala  Cys Gly Ala Gly Gly  Gly Ala Gly Ala Ala  Gly Cys Thr
          1955          1960          1965
Cys Thr  Ala Thr Gly Ala Cys  Thr Thr Gly Thr  Gly Ala Ala
          1970          1975          1980
Gly Ala  Cys Gly Gly Ala Gly  Cys Gly Thr Gly Ala  Thr Gly Ala
          1985          1990          1995
Ala Thr  Cys Cys Ala Gly Thr  Gly Gly Gly Cys Cys  Ala Ala Ala
          2000          2005          2010
Gly Ala  Cys Cys Cys Thr Gly  Ala Ala Gly Ala Gly  Cys Cys Thr
```

```
        2015            2020           2025
Cys Ala  Cys Cys Ala Gly Cys  Cys Ala Cys Gly Ala  Cys Cys Cys
        2030            2035           2040
Cys Ala  Thr Gly Ala Ala Gly  Cys Ala Gly Thr Gly  Gly Gly Ala
        2045            2050           2055
Ala Gly  Thr Cys Ala Cys Thr  Ala Gly Cys Ala Gly  Gly Gly Cys
        2060            2065           2070
Cys Cys  Cys Thr Cys Cys Gly  Thr Gly Cys Ala Gly  Thr Gly Gly
        2075            2080           2085
Cys Thr  Cys Cys Ala Gly Cys  Ala Thr Cys Ala Cys  Thr Gly Ala
        2090            2095           2100
Ala Ala  Thr Cys Ala Thr Cys  Ala Ala Cys Cys Cys  Cys Ala Ala
        2105            2110           2115
Cys Thr  Ala Cys Ala Thr Gly  Gly Gly Ala Gly Thr  Gly Gly Gly
        2120            2125           2130
Gly Cys  Cys Cys Thr Thr Thr  Gly Gly Gly Cys Cys  Ala Cys Cys
        2135            2140           2145
Ala Ala  Thr Gly Cys Cys Cys  Cys Thr Gly Cys Ala  Cys Gly Thr
        2150            2155           2160
Gly Ala  Ala Gly Cys Ala Gly  Ala Cys Cys Thr Thr  Gly Thr Cys
        2165            2170           2175
Cys Cys  Cys Thr Gly Ala Cys  Cys Ala Gly Cys Ala  Gly Cys Cys
        2180            2185           2190
Cys Ala  Cys Ala Gly Cys Cys  Thr Gly Gly Ala Gly  Cys Thr Ala
        2195            2200           2205
Cys Gly  Ala Cys Cys Ala Gly  Cys Cys Gly Cys Cys  Cys Ala Ala
        2210            2215           2220
Gly Gly  Ala Cys Thr Cys Cys  Cys Cys Gly Cys Thr  Gly Gly Gly
        2225            2230           2235
Gly Cys  Cys Cys Thr Gly Cys  Ala Gly Gly Gly Gly  Ala Gly Ala
        2240            2245           2250
Ala Ala  Gly Thr Cys Cys Thr  Cys Cys Gly Ala Cys  Ala Cys Cys
        2255            2260           2265
Thr Cys  Cys Cys Gly Gly Cys  Cys Ala Gly Cys Cys  Gly Cys Cys
        2270            2275           2280
Cys Ala  Thr Ala Thr Cys Ala  Cys Cys Cys Ala Ala  Gly Ala Ala
        2285            2290           2295
Gly Thr  Thr Thr Thr Thr Ala  Cys Cys Cys Thr Cys  Ala Ala Cys
        2300            2305           2310
Ala Gly  Cys Ala Ala Ala Cys  Cys Gly Gly Gly Gly  Thr Cys Thr
        2315            2320           2325
Cys Cys  Cys Thr Cys Cys Cys  Ala Gly Gly Ala Cys  Ala Cys Ala
        2330            2335           2340
Gly Gly  Ala Gly Thr Cys Ala  Ala Gly Gly Cys Cys  Cys Ala Gly
        2345            2350           2355
Thr Gly  Ala Cys Cys Thr Gly  Gly Gly Gly Ala Ala  Gly Ala Ala
        2360            2365           2370
Cys Gly  Cys Ala Gly Gly Gly  Gly Ala Cys Ala Cys  Gly Cys Thr
        2375            2380           2385
Gly Cys  Cys Thr Cys Ala Gly  Gly Ala Gly Gly Ala  Cys Cys Thr
```

```
        2390            2395            2400
Gly Cys  Cys Gly Cys Thr Gly  Ala Cys Gly Ala Ala  Gly Cys Cys
    2405            2410            2415
Cys Gly  Ala Gly Ala Thr Gly  Thr Thr Thr Gly Ala  Gly Ala Ala
    2420            2425            2430
Cys Cys  Cys Cys Cys Thr Gly  Thr Ala Thr Gly Gly  Gly Thr Cys
    2435            2440            2445
Cys Cys  Thr Gly Ala Gly Thr  Thr Cys Cys Thr Thr  Cys Cys Cys
    2450            2455            2460
Thr Ala  Ala Gly Cys Cys Thr  Gly Cys Thr Cys Cys  Cys Ala Gly
    2465            2470            2475
Gly Ala  Ala Gly Gly Ala Cys  Cys Ala Gly Gly Ala  Ala Thr Cys
    2480            2485            2490
Cys Cys  Cys Cys Ala Ala Ala  Ala Thr Gly Cys Cys  Gly Cys Gly
    2495            2500            2505
Gly Ala  Ala Gly Gly Ala Ala  Cys Cys Cys Cys Cys  Gly Cys Cys
    2510            2515            2520
Cys Thr  Gly Cys Cys Cys Gly  Gly Ala Ala Cys Cys  Cys Gly Gly
    2525            2530            2535
Cys Ala  Thr Cys Thr Thr Gly  Thr Cys Gly Cys Cys  Cys Ala Gly
    2540            2545            2550
Cys Ala  Thr Cys Gly Thr Gly  Cys Thr Cys Ala Cys  Cys Ala Ala
    2555            2560            2565
Ala Gly  Cys Cys Cys Ala Gly  Gly Ala Gly Gly Cys  Thr Gly Ala
    2570            2575            2580
Thr Cys  Gly Cys Gly Gly Cys  Gly Ala Gly Gly Gly  Gly Cys Cys
    2585            2590            2595
Cys Gly  Gly Cys Ala Ala Gly  Cys Ala Gly Gly Thr  Gly Cys Cys
    2600            2605            2610
Cys Gly  Cys Gly Cys Cys Cys  Cys Gly Gly Cys Thr  Gly Cys Gly
    2615            2620            2625
Cys Thr  Cys Cys Thr Thr Cys  Ala Cys Gly Thr Gly  Cys Thr Cys
    2630            2635            2640
Ala Thr  Cys Cys Thr Cys Thr  Gly Cys Cys Gly Ala  Gly Gly Gly
    2645            2650            2655
Cys Ala  Gly Gly Gly Cys Gly  Gly Cys Cys Gly Gly  Cys Gly Gly
    2660            2665            2670
Gly Gly  Ala Cys Ala Ala Gly  Ala Gly Cys Cys Ala  Ala Gly Gly
    2675            2680            2685
Gly Ala  Ala Gly Cys Cys Cys  Ala Ala Gly Ala Cys  Cys Cys Cys
    2690            2695            2700
Gly Gly  Thr Cys Ala Gly Cys  Thr Cys Cys Cys Ala  Gly Gly Cys
    2705            2710            2715
Cys Cys  Cys Gly Gly Thr Gly  Cys Cys Gly Gly Cys  Cys Ala Ala
    2720            2725            2730
Gly Ala  Gly Gly Cys Cys Cys  Ala Thr Cys Ala Ala  Gly Cys Cys
    2735            2740            2745
Thr Thr  Cys Cys Ala Gly Ala  Thr Cys Gly Gly Ala  Ala Ala Thr
    2750            2755            2760
Cys Ala  Ala Cys Cys Ala Gly  Cys Ala Gly Ala Cys  Cys Cys Cys
```

```
          2765            2770            2775
Gly Cys  Cys Cys Ala Cys Cys  Cys Cys Gly Ala Cys  Gly Cys Cys
     2780            2785            2790
Gly Cys  Gly Gly Cys Cys Gly  Cys Cys Gly Cys Thr  Gly Cys Cys
     2795            2800            2805
Ala Gly  Thr Cys Ala Ala Gly  Ala Gly Cys Cys Cys  Gly Gly Cys
     2810            2815            2820
Gly Gly  Thr Gly Cys Thr Gly  Cys Ala Cys Cys Thr  Cys Cys Ala
     2825            2830            2835
Gly Cys  Ala Cys Thr Cys Cys  Ala Ala Gly Gly Gly  Cys Cys Gly
     2840            2845            2850
Cys Gly  Ala Cys Thr Ala Cys  Cys Gly Cys Gly Ala  Cys Ala Ala
     2855            2860            2865
Cys Ala  Cys Cys Gly Ala Gly  Cys Thr Cys Cys Cys  Gly Cys Ala
     2870            2875            2880
Thr Cys  Ala Cys Gly Gly Cys  Ala Ala Gly Cys Ala  Cys Cys Gly
     2885            2890            2895
Gly Cys  Cys Gly Gly Ala Gly  Gly Ala Gly Gly Gly  Gly Cys Cys
     2900            2905            2910
Ala Cys  Cys Ala Gly Gly Gly  Cys Cys Thr Cys Thr  Ala Gly Gly
     2915            2920            2925
Cys Ala  Gly Gly Ala Cys Thr  Gly Cys Cys Ala Thr  Gly Cys Ala
     2930            2935            2940
Gly Thr  Gly Ala Ala Gly Cys  Cys Cys Thr Cys Ala  Gly Thr Gly
     2945            2950            2955
Ala Gly  Cys Thr Gly Cys Cys  Ala Cys Thr Gly Ala  Gly Thr Cys
     2960            2965            2970
Gly Gly  Gly Ala Gly Cys Cys  Cys Ala Gly Ala Gly  Gly Ala Ala
     2975            2980            2985
Cys Gly  Gly Cys Gly Thr Gly  Ala Ala Gly Cys Cys  Ala Cys Thr
     2990            2995            3000
Gly Gly  Ala Cys Cys Cys Thr  Cys Thr Cys Cys Cys  Gly Gly Gly
     3005            3010            3015
Ala Cys  Cys Thr Cys Cys Thr  Gly Cys Thr Gly Gly  Cys Thr Cys
     3020            3025            3030
Cys Thr  Cys Cys Thr Gly Cys  Cys Cys Ala Gly Cys  Thr Thr Cys
     3035            3040            3045
Cys Thr  Ala Thr Gly Cys Ala  Ala Gly Gly Cys Thr  Thr Thr Gly
     3050            3055            3060
Thr Gly  Thr Thr Thr Thr Cys  Ala Gly Gly Ala Ala  Ala Gly Gly
     3065            3070            3075
Gly Cys  Cys Thr Ala Gly Cys  Thr Thr Cys Thr Gly  Thr Gly Thr
     3080            3085            3090
Gly Gly  Cys Cys Cys Ala Cys  Ala Gly Ala Gly Thr  Thr Cys Ala
     3095            3100            3105
Cys Thr  Gly Cys Cys Thr Gly  Thr Gly Ala Gly Ala  Cys Thr Thr
     3110            3115            3120
Ala Gly  Cys Ala Cys Cys Ala  Ala Gly Thr Gly Cys  Thr Gly Ala
     3125            3130            3135
Gly Gly  Cys Thr Gly Gly Ala  Ala Gly Ala Ala Ala  Ala Ala Cys
```

```
        3140            3145            3150
Gly Cys  Ala Cys Ala Cys Cys  Ala Gly Ala Cys Gly  Gly Gly Cys
        3155            3160            3165
Ala Ala  Cys Ala Ala Ala Cys  Ala Gly Thr Cys Thr  Gly Gly Gly
        3170            3175            3180
Thr Cys  Cys Cys Cys Ala Gly  Cys Thr Cys Gly Cys  Thr Cys Thr
        3185            3190            3195
Thr Gly  Gly Thr Ala Cys Thr  Thr Gly Gly Gly Ala  Cys Cys Cys
        3200            3205            3210
Cys Ala  Gly Thr Gly Cys Cys  Thr Cys Gly Thr Thr  Gly Ala Gly
        3215            3220            3225
Gly Gly  Cys Gly Cys Cys Ala  Thr Thr Cys Thr Gly  Ala Ala Gly
        3230            3235            3240
Ala Ala  Ala Gly Gly Ala Ala  Cys Thr Gly Cys Ala  Gly Cys Gly
        3245            3250            3255
Cys Cys  Gly Ala Thr Thr Thr  Gly Ala Gly Gly Gly  Thr Gly Gly
        3260            3265            3270
Ala Gly  Ala Thr Ala Thr Ala  Gly Ala Thr Ala Ala  Thr Ala Ala
        3275            3280            3285
Thr Ala  Ala Thr Ala Thr Thr  Ala Ala Thr Ala Ala  Thr Ala Ala
        3290            3295            3300
Thr Ala  Ala Thr Gly Gly Cys  Cys Ala Cys Ala Thr  Gly Gly Ala
        3305            3310            3315
Thr Cys  Gly Ala Ala Cys Ala  Cys Thr Cys Ala Thr  Gly Ala Thr
        3320            3325            3330
Gly Thr  Gly Cys Cys Ala Ala  Ala Thr Gly Cys Thr  Gly Thr Gly
        3335            3340            3345
Cys Thr  Ala Ala Gly Thr Gly  Cys Thr Thr Thr Ala  Cys Gly Ala
        3350            3355            3360
Ala Cys  Ala Thr Thr Cys Gly  Thr Cys Ala Thr Ala  Thr Cys Ala
        3365            3370            3375
Gly Gly  Ala Thr Gly Ala Cys  Cys Thr Cys Gly Ala  Gly Ala Gly
        3380            3385            3390
Cys Thr  Gly Ala Gly Gly Cys  Thr Cys Thr Ala Gly  Cys Ala Cys
        3395            3400            3405
Cys Thr  Ala Ala Ala Ala Cys  Cys Ala Cys Gly Thr  Gly Cys Cys
        3410            3415            3420
Cys Ala  Ala Ala Cys Cys Cys  Ala Cys Cys Ala Gly  Thr Thr Thr
        3425            3430            3435
Ala Ala  Ala Ala Cys Gly Gly  Thr Gly Thr Gly Thr  Gly Thr Thr
        3440            3445            3450
Cys Gly  Gly Ala Gly Gly Gly  Gly Thr Gly Ala Ala  Ala Gly Cys
        3455            3460            3465
Ala Thr  Thr Ala Ala Gly Ala  Ala Gly Cys Cys Cys  Ala Gly Thr
        3470            3475            3480
Gly Cys  Cys Cys Thr Cys Cys  Thr Gly Gly Ala Gly  Thr Gly Ala
        3485            3490            3495
Gly Ala  Cys Ala Ala Gly Gly  Gly Cys Thr Cys Gly  Gly Cys Cys
        3500            3505            3510
Thr Thr  Ala Ala Gly Gly Ala  Gly Cys Thr Gly Ala  Ala Gly Ala
```

3515   3520   3525
Gly Thr Cys Thr Gly Gly Gly Thr Ala Gly Cys Thr Thr Gly Thr
        3530   3535   3540
Thr Thr Ala Gly Gly Gly Thr Ala Cys Ala Ala Gly Ala Ala Gly
        3545   3550   3555
Cys Cys Thr Gly Thr Thr Cys Thr Gly Thr Cys Cys Ala Gly Cys
        3560   3565   3570
Thr Thr Cys Ala Gly Thr Gly Ala Cys Ala Cys Ala Ala Gly Cys
        3575   3580   3585
Thr Gly Cys Thr Thr Thr Ala Gly Cys Thr Ala Ala Ala Gly Thr
        3590   3595   3600
Cys Cys Cys Gly Cys Gly Gly Gly Thr Thr Cys Cys Gly Gly Cys
        3605   3610   3615
Ala Thr Gly Gly Cys Thr Ala Gly Gly Cys Thr Gly Ala Gly Ala
        3620   3625   3630
Gly Cys Ala Gly Gly Gly Ala Thr Cys Thr Ala Cys Cys Thr Gly
        3635   3640   3645
Gly Cys Thr Thr Cys Thr Cys Ala Gly Thr Thr Cys Thr Thr Thr
        3650   3655   3660
Gly Gly Thr Thr Gly Gly Ala Ala Gly Gly Ala Gly Cys Ala Gly
        3665   3670   3675
Gly Ala Ala Ala Thr Cys Ala Gly Cys Thr Cys Cys Thr Ala Thr
        3680   3685   3690
Thr Cys Thr Cys Cys Ala Gly Thr Gly Gly Ala Gly Ala Gly Ala
        3695   3700   3705
Thr Cys Thr Gly Gly Cys Cys Thr Cys Ala Gly Cys Thr Thr Gly
        3710   3715   3720
Gly Gly Cys Thr Ala Gly Ala Gly Ala Thr Gly Cys Cys Ala Ala
        3725   3730   3735
Gly Gly Cys Cys Thr Gly Thr Gly Cys Cys Ala Gly Gly Thr Thr
        3740   3745   3750
Cys Cys Cys Thr Gly Thr Gly Cys Cys Cys Thr Cys Cys Thr Cys
        3755   3760   3765
Gly Ala Gly Gly Thr Gly Gly Gly Cys Ala Gly Cys Cys Ala Thr
        3770   3775   3780
Cys Ala Cys Cys Ala Gly Cys Cys Ala Cys Ala Gly Thr Thr Ala
        3785   3790   3795
Ala Gly Cys Cys Ala Ala Gly Cys Cys Cys Cys Cys Cys Ala Ala
        3800   3805   3810
Cys Ala Thr Gly Thr Ala Thr Thr Cys Cys Ala Thr Cys Gly Thr
        3815   3820   3825
Gly Cys Thr Gly Gly Thr Ala Gly Ala Ala Gly Ala Gly Thr Cys
        3830   3835   3840
Thr Thr Thr Gly Cys Thr Gly Thr Thr Gly Cys Thr Cys Cys Cys
        3845   3850   3855
Gly Ala Ala Ala Gly Cys Cys Gly Thr Gly Cys Thr Cys Thr Cys
        3860   3865   3870
Cys Ala Gly Cys Cys Thr Gly Gly Cys Thr Gly Cys Cys Ala Gly
        3875   3880   3885
Gly Gly Ala Gly Gly Gly Thr Gly Gly Gly Cys Cys Thr Cys Thr

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Gly Ala  Ala Ala Thr Ala Gly  Thr Gly Cys Ala Gly  Cys Cys Thr
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Gly Thr  Gly Gly Cys Thr Thr  Thr Cys Ala Gly Cys  Thr Cys Thr
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Gly Cys  Thr Thr Cys Cys Thr  Thr Gly Gly Thr Thr  Ala Thr Thr
   3965            3970            3975
Ala Gly  Gly Ala Gly Ala Ala  Thr Ala Gly Ala Thr  Gly Gly Gly
   3980            3985            3990
Thr Gly  Ala Thr Gly Thr Cys  Thr Thr Thr Cys Cys  Thr Thr Ala
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Thr Gly  Thr Thr Gly Cys Thr  Thr Thr Thr Thr Cys  Ala Ala Cys
   4010            4015            4020
Ala Thr  Ala Gly Cys Ala Gly  Ala Ala Thr Thr Ala  Ala Thr Gly
   4025            4030            4035
Thr Ala  Gly Gly Gly Ala Gly  Cys Thr Ala Ala Ala  Thr Cys Cys
   4040            4045            4050
Ala Gly  Thr Gly Gly Thr Gly  Thr Gly Thr Gly Thr  Gly Ala Ala
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Thr Gly  Cys Ala Gly Ala Ala  Gly Gly Gly Ala Ala  Thr Gly Cys
   4070            4075            4080
Ala Cys  Cys Cys Cys Ala Cys  Ala Thr Thr Cys Cys  Cys Ala Thr
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Gly Ala  Thr Gly Gly Ala Ala  Gly Thr Cys Thr Gly  Cys Gly Thr
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Ala Ala  Cys Cys Ala Ala Thr  Ala Ala Ala Thr Thr  Gly Thr Gly
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     35              40              45
Cys Thr Gly Ala Gly Ala Gly Ala Gly Gly Gly Gly Thr Gly Gly Gly
  50              55              60
Gly Gly Ala Gly Cys Thr Thr Cys Ala Thr Gly Gly Gly Thr Ala Ala
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Cys Cys Cys Ala Gly Gly Ala Gly Gly Ala Thr Gly Gly Cys Cys Ala
            100           105           110
Cys Ala Gly Cys Ala Ala Gly Ala Gly Ala Ala Ala Gly Thr Gly Cys
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Thr Cys Ala Thr Thr Ala Gly Ala Gly Thr Gly Ala Cys Cys Cys Thr
            130           135           140
Gly Gly Gly Thr Cys Thr Cys Cys Thr Cys Thr Cys Thr Gly Thr Cys
            145           150           155           160
Cys Ala Gly Ala Thr Gly Thr Cys Thr Cys Thr Gly Cys Ala Gly Cys
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Ala Cys Thr Cys Ala Cys Ala Gly Thr Ala Ala Thr Thr Gly Gly Cys
            180           185           190
Cys Cys Ala Gly Gly Thr Gly Gly Ala Gly Thr Cys Thr Gly Gly Ala
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Ala Thr Gly Thr Thr Cys Cys Ala Gly Gly Cys Thr Thr Gly Thr Thr
            210           215           220
Gly Gly Ala Ala Gly Cys Thr Cys Thr Thr Gly Cys Thr Cys Thr Cys
            225           230           235           240
Ala Thr Ala Gly Ala Ala Thr Cys Thr Gly Ala Gly Cys Thr Cys Thr
            245           250           255
Ala Ala Cys Thr Gly Ala Gly Cys Thr Gly Gly Gly Ala Ala Ala Gly
            260           265           270
Thr Thr Gly Ala Thr Cys Ala Thr Thr Thr Gly Thr Thr Thr Ala Thr
            275           280           285
Thr Cys Cys Thr Thr Thr Thr Ala Gly Gly Gly Thr Ala Thr Thr Gly
            290           295           300
Gly Gly Gly Gly Gly Gly Cys Ala Cys Gly Gly Ala Thr Gly Thr Ala
            305           310           315           320
Thr Gly Cys Ala Thr Gly Cys Thr Gly Gly Thr Ala Thr Gly Thr Ala
            325           330           335
Thr Gly Cys Ala Thr Gly Cys Thr Gly Gly Gly Gly Ala Thr Gly Thr
            340           345           350
Ala Gly Gly Gly Cys Cys Thr Cys Ala Thr Gly Thr Gly Thr Gly Cys
            355           360           365
Thr Ala Ala Ala Thr Ala Cys Ala Thr Gly Thr Gly Cys Cys Thr Ala
            370           375           380
Thr Thr Cys Thr Gly Thr Ala Ala Thr Gly Thr Thr Thr Cys Thr
            385           390           395           400
Thr Gly Thr Thr Thr Gly Thr Thr Thr Thr Ala Ala Cys Thr Cys
            405           410           415
Ala Ala Ala Thr Thr Ala Ala Thr Thr Ala Gly Ala Gly Gly Cys Ala
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            35   40   45

Cys Thr Ala Cys Cys Cys Ala Cys Thr Cys Ala Ala Ala Thr Thr Cys
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Thr Thr Ala Thr Cys Thr Thr Gly Thr Ala Thr Thr Cys Thr Thr Thr
65   70   75   80

Ala Thr Cys Ala Thr Thr Ala Thr Thr Ala Thr Ala Cys Ala Thr Ala
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Thr Gly Thr Gly Thr Ala Thr Ala Thr Ala Thr Gly Thr Gly Thr Gly
            100   105   110

Thr Gly Thr Gly Thr Ala Thr Ala Thr Ala Thr Ala Thr Ala Thr Ala
        115   120   125

Thr Ala Cys Thr Ala Thr Ala Thr Ala Cys Thr Gly Cys Thr Ala Ala
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Thr Gly Ala Gly Thr Ala Ala Cys Ala Thr Thr Thr Ala Gly Thr Gly
145   150   155   160

Thr Thr Ala Thr Thr Cys Ala Thr Thr Gly Asn Thr Gly Cys Asn Thr
                165   170   175

Gly Thr Thr Thr Asn Cys Ala Ala Thr Gly Asn Gly Cys Thr Thr Thr
            180   185   190

Cys Cys Ala Gly Gly Asn Gly Gly Cys Thr Gly Gly Gly Gly Gly Gly
            195   200   205

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    210   215   220

Ala Ala Thr Thr Cys Thr Ala Gly Cys Thr Gly Cys Ala Cys Ala Ala
225   230   235   240

Gly Cys Cys Thr Ala Ala Gly Gly Ala Cys Cys Ala Gly Gly Gly Thr
            245   250   255

Thr Cys Ala Gly Ala Thr Cys Cys Cys Ala Ala Thr Ala Thr Ala
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Ala Ala Gly Gly Cys Thr Gly Gly Cys Thr Gly Gly Ala Cys Ala Thr
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Gly Gly Gly Gly Gly Cys Thr Thr Gly Cys Cys Thr Ala Thr Gly Ala
    290   295   300

Thr Ala Cys Thr Ala Gly Cys Ala Thr Gly Cys Thr Thr Gly Cys Thr
305   310   315   320

Gly Gly Ala Ala Gly Cys Ala Ala Ala Gly Ala Cys Ala Gly Gly Gly
            325   330   335

Ala Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly Ala Cys Thr Thr Ala
        340   345   350

Asn Ala Ala Thr Cys Thr Cys Ala Asn Ala Ala Gly Thr Gly Ala Thr

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  370            375            380
Ala Gly Cys Thr Gly Ala Ala Cys Thr Gly Gly Cys Cys Ala Gly Cys
385            390            395            400
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               405            410            415
Ala Ala Cys Cys Cys Thr Asn Cys Cys Thr Cys Cys Ala Thr Ala Ala
          420            425            430
Cys Ala Thr Ala Ala Ala Gly Thr Gly Thr Gly Ala Asn Gly Gly Ala
          435            440            445
Asn Ala Ala Ala Gly Gly Cys Ala Cys Cys Thr Ala Ala Thr Gly Thr
  450            455            460
Cys Ala Ala Cys Cys Thr Cys Ala Ala Ala Cys Cys Cys Cys Thr Ala
465            470            475            480
Cys Cys Thr Gly Cys Ala Thr Gly Thr Gly Cys Ala Cys Ala Cys Ala
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Cys Ala Thr Ala Cys Ala Thr Cys Cys Ala Cys Ala Cys Cys Ala Cys
          500            505            510
Ala Cys Ala Cys Ala Cys Ala Cys Gly Cys Ala Cys Ala Cys Ala Cys
  515            520            525
Ala Cys Ala Cys Ala Cys Ala Cys Ala Cys Cys Ala Cys Ala Cys Ala
  530            535            540
Cys Ala Cys Ala Cys Ala Cys Ala Cys Ala Cys Ala Ala Ala Thr Ala
545            550            555            560
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               565            570            575
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     595            600            605
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  610            615            620
Ala Thr Thr Thr Gly Thr Gly Thr Gly Thr Gly Thr Cys Cys Thr Ala
625            630            635            640
Cys Ala Ala Ala Cys Ala Cys Thr Gly Ala Ala Gly Gly Thr Thr Ala
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Ala Gly Ala Ala Gly Cys Ala Thr Gly Cys Thr Cys Cys Thr Thr Ala
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Gly Thr Ala Ala Thr Thr Thr Thr Ala Thr Ala Gly Cys Ala Gly Thr
     675            680            685
Thr Thr Gly Cys Gly Thr Thr Thr Cys Cys Ala Gly Ala Thr Thr Gly
  690            695            700
Ala Ala Ala Ala Cys Ala Gly Ala Thr Thr Cys Thr Ala Thr Ala Gly
705            710            715            720
Gly Cys Thr Ala Cys Ala Cys Ala Gly Thr Gly Cys Thr Ala Ala Ala
               725            730            735
Thr Gly Gly Ala Thr Thr Ala Thr Gly Cys Thr Cys Ala Gly Ala Thr
          740            745            750
Ala Cys Ala Gly Ala Thr Thr Gly Ala Ala Ala Ala Gly Gly Ala Thr
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                165            170            175
Thr Ala Thr Ala Ala Ala Cys Ala Thr Cys Gly Cys Gly Gly Thr Gly
          180            185            190
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      195            200            205
Thr Cys Cys Ala Thr Gly Cys Cys Cys Thr Thr Thr Thr Gly Thr Gly
    210            215            220
Ala Ala Gly Gly Cys Ala Thr Thr Thr Cys Cys Thr Gly Gly Cys Ala
225            230            235            240
Thr Cys Ala Gly Cys Thr Cys Cys Thr Gly Ala Cys Thr Thr Cys Ala
          245            250            255
Gly Ala Gly Thr Thr Thr Cys Ala Cys Cys Cys Ala Thr Cys Ala Gly
          260            265            270
Ala Cys Ala Ala Ala Thr Thr Gly Cys Cys Thr Gly Gly Thr Gly Thr
          275            280            285
Thr Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Thr Gly Ala Gly
      290            295            300
Cys Ala Gly Gly Gly Cys Cys Ala Thr Thr Cys Cys Cys Ala Thr Cys
305            310            315            320
Ala Thr Thr Thr Cys Thr Cys Cys Thr Cys Ala Gly Ala Ala Ala Thr
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Gly Gly Ala Ala Ala Gly Gly Cys Ala Ala Gly Gly Ala Ala Ala Ala
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Cys Ala Thr Gly Ala Gly Gly Thr Thr Cys Thr Thr Cys Ala Gly Ala
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Cys Ala Cys Thr Thr Ala Ala Thr Cys Cys Cys Thr Gly Gly Gly Ala
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Cys Thr Gly Cys Ala Ala Ala Ala Thr Gly Gly Thr Gly Gly Thr Gly
385            390            395            400
Cys Cys Cys Cys Thr Cys Cys Thr Cys Cys Ala Cys Ala Gly Cys Thr
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Gly Cys Thr Cys Ala Cys Gly Gly Cys Gly Gly Gly Gly Cys Ala Gly
          420            425            430
Gly Ala Gly Ala Thr Gly Ala Gly Gly Gly Cys Cys Gly Ala Ala Thr
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Gly Ala Ala Gly Cys Ala Thr Ala Asn Ala Thr Cys Thr Ala Gly Cys
    450            455            460
Thr Ala Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Ala Gly Asn Gly
465            470            475            480
Cys Cys Thr Thr Cys Ala Asn Thr Ala Ala Ala Thr Thr Thr Ala Ala
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Ala Ala Thr Cys Ala Ala Ala Thr Ala Ala Gly Gly Gly Ala Ala Gly
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Gly Gly Asn Cys Cys Thr Ala Ala Ala Thr Cys Thr Thr Thr Ala Thr
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Asn Thr Thr Asn Thr Gly Gly Cys Thr Thr Thr Asn Thr Ala Ala Ala
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Ala Gly Thr Asn Ala Ala Ala Asn Cys Thr Thr Asn Thr Cys Cys Cys
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Asn Cys Cys Gly Ala Thr Thr Cys Thr Gly Ala Asn Thr Thr Gly Ala
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Asn Gly Cys Cys Asn Gly Cys Cys Thr Gly Gly Thr Cys Thr Asn Asn
625           630           635           640
Asn Gly Asn Gly Gly Ala Gly Thr Thr Cys Cys Ala Asn Gly Ala Cys
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Ala Asn Cys Cys Ala Gly Gly Cys Thr Thr Cys Cys Cys Ala Asn Gly
        660           665           670
Thr Thr Thr Thr Thr Thr Thr Thr Thr Cys Ala Cys Ala Ala Ala Ala
        675           680           685
Cys Cys Cys Thr Thr Thr Thr Thr Thr Ala Ala Ala Ala Cys Cys Cys
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Thr Asn Thr Cys Thr Ala Ala Thr Cys Cys Asn Thr Ala Cys Thr Cys
705           710           715           720
Asn Thr Thr Asn Asn Asn Cys Cys Asn Thr Cys Ala Asn Thr Ala Cys
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Cys Ala Thr Asn Asn Cys Ala Asn Asn Thr Cys Cys Cys Thr Cys Thr
        740           745           750
Thr Thr Cys Asn Cys Cys Thr Asn Cys Asn Asn Thr Cys Thr Ala Cys
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Thr Thr Thr Thr Asn Thr Asn Cys Cys Asn Cys Thr Asn Asn Thr Gly
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Asn Asn Cys Asn Ala Thr Thr Ala Thr Thr Thr Thr Cys Cys Thr Cys
785           790           795           800
Thr Thr Cys Asn Cys Thr Thr Asn Thr Gly Thr Thr Ala Thr Ala Thr
          805           810           815
Asn Ala Asn Ala Thr Ala Ala Thr Thr Cys Thr Cys Cys Cys Ala Ala
        820           825           830
Cys Cys Cys Cys Thr Cys Ala Cys Cys Cys Cys Thr Cys Thr Thr Thr
      835           840           845
Ala Thr Thr Cys Thr Asn Ala Asn Asn Asn Asn Asn Ala Thr Thr Thr
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Thr Gly Asn Cys Ala Thr Cys Thr Gly Cys Cys Thr Cys Cys Asn Asn
865           870           875           880
Thr Thr Ala Asn Asn Asn Thr Thr Asn Asn Thr Cys Cys Thr Cys Asn
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Cys Thr Thr Cys Ala Asn Cys Thr Asn Cys Thr Thr Cys Cys Ala Thr
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Thr Asn Gly Gly Thr Thr Gly Thr Asn Ala Cys Thr Cys Asn Ala Asn
      915           920           925
Asn Thr Thr Thr Asn Cys Thr Asn Thr Cys Thr Cys Thr Thr Ala Asn
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Asn Asn Cys Thr Thr Cys Asn Cys Gly Asn Asn Asn Asn Thr Thr Cys
945           950           955           960
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Thr Thr Thr Asn Ala Gly Gly Ala Cys Cys Gly Cys Asn Asn Thr Ala
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Thr Gly Thr Thr Thr Ala Thr Asn Ala Gly Ala Ala Gly Ala Asn Asn
      50            55            60
Gly Gly Asn Gly Ala Asn Asn Gly Ala Asn Asn Thr Asn Thr Ala Ala
65          70            75            80
Gly Gly Ala Asn Cys Ala Cys Cys Ala Asn Ala Gly Asn Cys Gly Asn
            85            90            95
Cys Asn Asn Ala Ala Gly Gly Thr Thr Thr Thr Asn Ala Ala Thr Ala
          100           105           110
Asn Asn Gly Ala Gly Gly Asn Ala Gly Asn Cys Gly Ala Asn Ala Ala
          115           120           125
Ala Ala Ala Asn Ala Asn Thr Thr Thr Asn Cys Ala Thr Asn Thr Asn
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Thr Thr Thr Thr Gly Asn Cys Ala Cys Cys Asn Asn Gly Ala Asn Thr
145           150           155           160
Thr Thr Thr Gly Ala Ala Thr Ala Thr Asn Ala Asn Ala Thr Asn Ala
          165           170           175
Thr Gly Ala Ala Ala Ala Asn Asn Asn Asn Thr Gly Thr Gly Thr Asn
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Thr Gly Asn Asn Thr Gly Thr Gly Thr Gly Thr Asn Thr Gly Thr Asn
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Thr Gly Thr Gly Thr Gly Asn Asn Thr Gly Thr Cys Thr Gly Thr Cys
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Thr Ala Thr Asn Gly Gly Thr Gly Thr Gly Thr Gly Thr Gly Cys Asn
225           230           235           240
Ala Gly Asn Gly Ala Gly Thr Gly Ala Gly Thr Ala Gly Thr Gly Ala
            245           250           255
Gly Gly Ala Gly Ala Gly Ala Asn Ala Ala Gly Ala Ala Ala Gly Asn
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Ala Thr Ala Thr Gly Ala Gly Asn Ala Ala Ala Gly Asn Gly Cys Ala
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Gly Cys Thr Thr Gly Cys Asn Ala Ala Gly Ala Gly Gly Gly Ala Thr
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Cys Thr Cys Thr Cys Asn Thr Ala Cys Gly Gly Thr Gly Thr Gly Gly
305           310           315           320
Gly Thr Cys Asn Cys Ala Ala Ala Gly Thr Thr Thr Gly Ala Cys Thr
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Cys Gly Thr Gly Ala Cys Thr Thr Asn Thr Cys Thr Ala Asn Thr Gly
385             390             395             400
Cys Thr Cys Cys Thr Gly Gly Cys Thr Thr Thr Ala Gly Gly Gly Asn
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Gly Gly Cys Thr Thr Thr Thr Asn Thr Gly Thr Asn Thr Gly Thr Thr
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Thr Thr Asn Ala Thr Thr Thr Thr Thr Gly Thr Thr Thr Thr Cys Ala
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Cys Thr Thr Thr Thr Cys Ala Thr Thr Thr Cys Thr Ala Ala Ala
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Cys Ala Thr Gly Thr Cys Thr Gly Cys Gly Thr Ala Gly Gly Ala Ala
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Cys Thr Thr Thr Cys Cys Gly Gly Ala Ala Gly Thr Ala Gly Ala Thr
625             630             635             640
Gly Ala Cys Ala Cys Ala Thr Cys Ala Gly Ala Thr Thr Ala Ala Thr
            645             650             655
Ala Ala Gly Thr Gly Thr Thr Gly Thr Cys Ala Ala Ala Cys Thr Cys
         660             665             670
Ala Thr Cys Ala Gly Thr Gly Ala Ala Thr Gly Ala Ala Cys Cys Ala
      675             680             685
Thr Thr Thr Cys Cys Cys Ala Ala Cys Ala Gly Thr Thr Cys Ala Thr
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Cys Thr Gly Thr Thr Thr Cys Cys Thr Cys Cys Ala Cys Cys Ala Ala
705             710             715             720
Ala Thr Cys Thr Gly Thr Thr Gly Gly Thr Gly Gly Ala Gly Cys Ala
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Cys Gly Cys Gly Gly Thr Gly Cys Cys Ala Gly Cys Cys Ala Thr Thr
   770            775            780
Thr Thr Thr Cys Cys Ala Gly Cys Ala Thr Gly Cys Thr Ala Thr Gly
785            790            795            800
Gly Ala Ala Thr Ala Thr Ala Gly Gly Gly Gly Thr Gly Thr Thr Ala
           805            810            815
Thr Cys Ala Gly Gly Cys Cys Ala Gly Gly Gly Thr Gly Gly Gly Ala
           820            825            830
Ala Ala Ala Gly Cys Cys Thr Gly Gly Gly Ala Ala Thr Ala Gly Cys
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Gly Ala Gly Cys Cys Ala Gly Ala Thr Ala Gly Cys Cys Thr Cys Ala
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Cys Cys Cys Gly Gly Gly Ala Cys Ala Thr Thr Gly Ala Cys Cys Ala
865            870            875            880
Thr Cys Cys Cys Ala Gly Cys Cys Ala Thr Gly Thr Ala Gly Ala Thr
           885            890            895
Ala Ala Ala Thr Cys Ala Gly Ala Gly Thr Thr Gly Ala Cys Ala Thr
           900            905            910
Cys Ala Cys Cys Ala Ala Ala Gly Cys Cys Ala Gly Cys Cys Ala Cys
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Cys Ala Gly Ala Gly Thr Cys Cys Cys Thr Gly Gly Gly Cys Ala Thr
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Gly Ala Gly Cys Cys Cys Cys Thr Ala Cys Cys Cys Ala Cys Cys Cys
   50             55             60
Ala Gly Gly Ala Gly Gly Ala Thr Gly Gly Cys Cys Ala Cys Ala Gly
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         100           105           110
Thr Cys Thr Cys Cys Thr Cys Thr Cys Thr Gly Thr Cys Cys Ala Gly
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Ala Thr Gly Thr Cys Thr Cys Thr Gly Cys Ala Gly Cys Ala Cys Thr
    130           135           140
Cys Ala Cys Ala Gly Thr Ala Ala Thr Thr Gly Gly Cys Cys Cys Ala
145           150           155           160
Gly Gly Thr Gly Gly Ala Gly Thr Cys Thr Gly Gly Ala Ala Thr Gly
              165           170           175
Thr Thr Cys Cys Ala Gly Gly Cys Thr Thr Gly Thr Thr Gly Gly Ala
         180           185           190
Ala Gly Cys Thr Cys Thr Thr Gly Cys Thr Cys Thr Cys Ala Thr Ala
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Gly Ala Ala Thr Cys Thr Gly Ala Gly Cys Thr Cys Thr Ala Ala Cys
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Thr Gly Ala Gly Cys Thr Gly Gly Gly Ala Ala Ala Gly Thr Thr Gly
225           230           235           240
Ala Thr Cys Ala Thr Thr Thr Gly Thr Thr Thr Ala Thr Thr Cys Cys
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Thr Thr Thr Thr Ala Gly Gly Gly Thr Ala Thr Thr Gly Gly Gly Gly
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Gly Gly Gly Cys Ala Cys Gly Gly Ala Thr Gly Thr Ala Thr Gly Cys
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Ala Thr Gly Cys Thr Gly Gly Thr Ala Thr Gly Thr Ala Thr Gly Cys
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305           310           315           320
Gly Cys Cys Thr Cys Ala Thr Gly Thr Gly Thr Gly Cys Thr Ala Ala
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Thr Ala Thr Ala Thr Ala Thr Ala Thr Ala Thr Ala Thr Ala Thr Ala
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Thr Ala Thr Ala Ala Thr Thr Thr Ala Thr Thr Thr Ala Thr Thr Thr
      500            505            510
Ala Thr Thr Thr Ala Thr Thr Thr Gly Thr Gly Thr Ala Thr Gly Thr
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Gly Thr Gly Thr Ala Thr Ala Ala Gly Ala Ala Ala Gly Cys Gly Gly
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Gly Gly Gly Ala Cys Ala Cys Thr Cys Ala Thr Gly Thr Gly Cys Cys
545            550            555            560
Ala Thr Gly Gly Thr Gly Thr Gly Thr Ala Thr Gly Gly Gly Gly Ala
        565            570            575
Cys Ala Cys Ala Cys Gly Thr Gly Thr Cys Cys Thr Gly Thr Gly Gly
        580            585            590
Gly Gly Gly Ala Ala Cys Ala Thr Thr Gly Thr Gly Thr Cys Ala Gly
    595            600            605
Gly Gly Gly Ala Ala Cys Ala Ala Ala Cys Ala Thr Gly Thr Gly Cys
    610            615            620
Thr Gly Ala Gly Gly Gly Thr Gly Gly Gly Gly Gly Gly Ala Thr Ala
625            630            635            640
Thr Ala Thr Ala Thr Gly Thr Gly Cys Cys Ala Cys Thr Gly Thr Gly
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Gly Thr Gly Ala Thr Thr Thr Gly Gly Thr Thr Gly Gly Gly Gly Gly
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Ala Gly Ala Cys Ala Thr Gly Thr Ala Thr Gly Thr Gly Cys Thr Ala
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Thr Gly Ala Thr Ala Cys Cys Thr Gly Thr Gly Thr Gly Thr Ala Gly
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Gly Ala Cys Ala Gly Ala Gly Gly Ala Cys Ala Cys Ala Cys Thr Cys
705            710            715            720
Ala Cys Ala Cys Ala Gly Gly Ala Gly Cys Cys Thr Thr Cys Thr Thr
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Ala Cys Cys Thr Gly Cys Thr Gly Ala Gly Cys Thr Gly Thr Cys Thr
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Cys Ala Ala Gly Cys Ala Gly Thr Cys Cys Ala Ala Gly Cys Cys Cys
    755            760            765
Thr Cys Cys Ala Gly Gly Cys Thr Gly Thr Ala Gly Cys Cys Ala Cys
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Thr Cys Thr Thr Cys Cys Thr Cys Cys Thr Thr Gly Cys Thr Ala Cys
785            790            795            800
Ala Gly Thr Cys Cys Cys Ala Cys Ala Thr Cys Cys Ala Gly Cys Cys
        805            810            815
Ala Ala Cys Ala Cys Ala Thr Ala Ala Gly Gly Cys Thr Cys Thr
        820            825            830
Gly Gly Cys Ala Gly Gly Ala Ala Ala Thr Ala Ala Ala Thr Thr Ala
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Ala Ala Thr Thr Thr Gly Cys Thr Thr Thr Gly Thr Gly Thr Gly Thr
    850            855            860
Gly Gly Gly Thr Gly Cys Thr Gly Ala Cys Gly Gly Cys Thr Cys Ala
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Thr Ala Ala Thr Gly Thr Thr Thr Ala Ala Ala Gly Cys Ala Ala Gly
       900          905          910
Cys Cys Ala Ala Cys Ala Thr Cys Ala Gly Thr Thr Cys Thr Cys Cys
       915          920          925
Ala Gly Thr Gly Cys Cys Gly Ala Ala Gly Thr Thr Ala Thr Thr Gly
    930          935          940
Ala Ala Thr Gly Ala Cys Thr Gly Ala Cys Cys Ala Ala Thr Gly Gly
945          950          955          960
Gly Thr Ala Ala Cys Ala Cys Thr Thr Ala Gly Gly Ala Thr Thr Thr
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Thr Thr Ala Ala Ala Ala Ala Thr Thr Ala Thr Thr Thr Thr Gly Ala
           980          985          990
Thr Thr Gly Thr Ala Cys Ala Thr  Thr Thr Thr Gly Ala  Ala Thr Thr
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Ala Cys  Ala Thr Thr Ala Ala  Thr Cys Thr Thr Ala  Ala Ala Ala
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Thr Ala  Ala Ala Cys Thr Ala  Cys Ala Ala Ala Cys  Ala Thr Ala
     1025          1030          1035
Ala Ala  Cys Ala Cys Ala Cys  Thr Gly Thr Gly Gly  Thr Thr Gly
     1040          1045          1050
Gly Ala  Gly Cys Thr Gly Gly  Gly Cys Ala Thr Ala  Gly Thr Gly
     1055          1060          1065
Gly Cys  Ala Cys Ala Thr Gly  Cys Cys Thr Thr Thr  Ala Ala Thr
     1070          1075          1080
Thr Cys  Cys Ala Gly Ala Ala  Cys Thr Thr Gly Gly  Gly Ala Gly
     1085          1090          1095
Gly Cys  Ala Gly Ala Gly Gly  Cys Thr Gly Gly Cys  Ala Thr Ala
     1100          1105          1110
Thr Cys  Thr Cys Thr Ala Thr  Gly Ala Cys Thr Thr  Thr Gly Ala
     1115          1120          1125
Gly Gly  Cys Cys Ala Gly Cys  Cys Thr Gly Gly Thr  Cys Thr Ala
     1130          1135          1140
Thr Ala  Thr Ala Ala Thr Gly  Ala Gly Thr Thr Cys  Cys Ala Gly
     1145          1150          1155
Gly Ala  Cys Ala Gly Ala Gly  Ala Gly Ala Thr Cys  Cys Thr Gly
     1160          1165          1170
Thr Cys  Thr Cys Ala Cys Ala  Ala Ala Cys Ala Gly  Ala Gly Ala
     1175          1180          1185
Ala Ala  Ala Cys Cys Cys Cys  Ala Thr Ala Ala Cys  Thr Ala Thr
     1190          1195          1200
Ala Cys  Thr Thr Thr Thr Ala  Thr Thr Gly Thr Ala  Cys Thr Gly
     1205          1210          1215
Gly Thr  Thr Gly Gly Thr Cys  Thr Ala Cys Ala Gly  Thr Gly Thr
     1220          1225          1230
Ala Ala  Ala Gly Ala Ala Thr  Thr Gly Gly Cys Ala  Ala Ala Gly
     1235          1240          1245
Ala Ala  Thr Ala Thr Gly Ala  Ala Ala Gly Ala Thr  Thr Ala Cys
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        1250            1255            1260
Ala Cys  Thr Gly Gly Gly Ala  Ala Gly Ala Ala Ala  Cys Thr Gly
        1265            1270            1275
Ala Ala  Ala Gly Cys Cys Ala  Thr Cys Cys Ala Gly  Ala Gly Thr
        1280            1285            1290
Ala Ala  Thr Gly Ala Ala Gly  Cys Ala Ala Ala Cys  Cys Cys Cys
        1295            1300            1305
Thr Cys  Ala Cys Ala Ala Ala  Thr Gly Thr Gly Gly  Gly Ala Ala
        1310            1315            1320
Ala Cys  Ala Thr Thr Thr Cys  Ala Cys Ala Thr Gly  Gly Gly Thr
        1325            1330            1335
Gly Ala  Gly Gly Gly Cys Thr  Thr Gly Cys Ala Gly  Cys Cys Ala
        1340            1345            1350
Gly Cys  Cys Thr Gly Thr Gly  Cys Thr Ala Ala Thr  Thr Thr Ala
        1355            1360            1365
Thr Gly  Thr Thr Thr Thr Gly  Gly Thr Ala Cys Gly  Thr Gly Ala
        1370            1375            1380
Gly Cys  Ala Cys Thr Thr Ala  Gly Ala Gly Cys Ala  Gly Thr Thr
        1385            1390            1395
Thr Cys  Cys Ala Gly Thr Thr  Cys Thr Cys Thr Gly  Gly Thr Gly
        1400            1405            1410
Cys Thr  Cys Thr Ala Cys Cys  Ala Ala Thr Cys Thr  Thr Ala Gly
        1415            1420            1425
Cys Thr  Thr Gly Gly Thr Thr  Ala Ala Thr Ala Thr  Thr Cys Ala
        1430            1435            1440
Gly Gly  Gly Ala Thr Gly Ala  Gly Thr Cys Thr Thr  Cys Cys Ala
        1445            1450            1455
Thr Cys  Ala Cys Cys Gly Gly  Thr Ala Ala Thr Cys  Thr Ala Ala
        1460            1465            1470
Thr Thr  Thr Gly Cys Cys Ala  Thr Thr Cys Thr Ala  Thr Thr Thr
        1475            1480            1485
Ala Ala  Ala Gly Gly Cys Thr  Cys Thr Thr Ala Ala  Ala Gly Gly
        1490            1495            1500
Cys Ala  Cys Ala Gly Gly Cys  Ala Gly Thr Gly Cys  Ala Thr Thr
        1505            1510            1515
Gly Gly  Gly Thr Ala Ala Ala  Thr Gly Thr Gly Gly  Cys Ala Ala
        1520            1525            1530
Ala Thr  Ala Ala Thr Thr Thr  Cys Thr Thr Thr Gly  Ala Cys Ala
        1535            1540            1545
Ala Ala  Thr Cys Gly Ala Cys  Cys Ala Ala Thr Thr  Gly Thr Cys
        1550            1555            1560
Ala Gly  Ala Thr Thr Gly Gly  Cys Cys Thr Gly Cys  Thr Ala Gly
        1565            1570            1575
Thr Cys  Ala Thr Thr Thr Gly  Thr Thr Thr Cys Ala  Ala Thr Gly
        1580            1585            1590
Ala Gly  Ala Ala Cys Thr Gly  Thr Thr Thr Thr Thr  Thr Cys Thr
        1595            1600            1605
Cys Ala  Ala Ala Gly Gly Ala  Thr Gly Cys Thr Cys  Thr Thr Gly
        1610            1615            1620
Thr Ala  Cys Ala Cys Cys Gly  Gly Cys Thr Ala Gly  Ala Ala Gly
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          1625          1630          1635
Cys Ala  Gly Gly Gly Cys Thr  Gly Thr Cys Ala Thr  Thr Thr Thr
          1640          1645          1650
Thr Ala  Thr Ala Gly Gly Thr  Cys Thr Cys Thr Gly  Thr Gly Gly
          1655          1660          1665
Thr Ala  Thr Thr Thr Thr Gly  Thr Thr Gly Thr Thr  Gly Thr Thr
          1670          1675          1680
Gly Thr  Thr Cys Thr Gly Thr  Thr Gly Thr Thr Gly  Cys Ala Ala
          1685          1690          1695
Ala Thr  Cys Ala Thr Thr Thr  Ala Thr Cys Ala Cys  Thr Gly Ala
          1700          1705          1710
Gly Gly  Gly Ala Ala Ala Ala  Thr Ala Cys Ala Cys  Ala Cys Ala
          1715          1720          1725
Ala Ala  Gly Gly Gly Cys Cys  Cys Thr Thr Thr Cys  Thr Thr Thr
          1730          1735          1740
Ala Ala  Ala Ala Gly Thr Ala  Thr Ala Cys Ala Thr  Gly Thr Ala
          1745          1750          1755
Thr Cys  Ala Thr Thr Thr Thr  Gly Thr Gly Ala Cys  Ala Gly Cys
          1760          1765          1770
Thr Cys  Ala Thr Ala Ala Gly  Ala Ala Gly Cys Thr  Gly Thr Thr
          1775          1780          1785
Thr Thr  Thr Thr Thr Cys Thr  Gly Cys Cys Thr Gly  Gly Ala Cys
          1790          1795          1800
Ala Cys  Ala Gly Gly Thr Cys  Cys Thr Gly Ala Cys  Cys Thr Gly
          1805          1810          1815
Thr Gly  Cys Thr Gly Thr Gly  Thr Cys Cys Thr Thr  Gly Cys Thr
          1820          1825          1830
Ala Ala  Gly Cys Thr Thr Thr  Gly Thr Cys Ala Gly  Ala Cys Cys
          1835          1840          1845
Cys Thr  Thr Cys Cys Ala Cys  Ala Gly Cys Thr Cys  Cys Cys Cys
          1850          1855          1860
Cys Cys  Ala Ala Cys Ala Ala  Cys Gly Ala Gly Thr  Thr Cys Cys
          1865          1870          1875
Cys Cys  Ala Gly Thr Ala Cys  Cys Thr Gly Cys Cys  Thr Cys Ala
          1880          1885          1890
Cys Cys  Thr Cys Ala Thr Cys  Ala Cys Thr Ala Thr  Gly Gly Thr
          1895          1900          1905
Gly Ala  Cys Ala Gly Cys Ala  Gly Cys Cys Thr Cys  Thr Gly Ala
          1910          1915          1920
Thr Gly  Cys Gly Cys Thr Gly  Ala Cys Thr Cys Thr  Cys Thr Gly
          1925          1930          1935
Gly Cys  Ala Cys Ala Thr Thr  Ala Thr Gly Gly Cys  Ala Gly Thr
          1940          1945          1950
Gly Thr  Thr Ala Ala Ala Ala  Gly Cys Thr Thr Cys  Cys Ala Thr
          1955          1960          1965
Cys Thr  Cys Thr Cys Thr Cys  Thr Thr Thr Gly Cys  Thr Gly Ala
          1970          1975          1980
Ala Thr  Ala Ala Thr Gly Ala  Ala Cys Cys Thr Cys  Ala Gly Gly
          1985          1990          1995
Thr Thr  Gly Thr Thr Cys Ala  Ala Gly Ala Gly Ala  Cys Cys Gly
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      2000            2005            2010
Gly Ala  Ala Thr Gly Thr Thr  Cys Thr Thr Cys Ala  Cys Cys Thr
      2015            2020            2025
Gly Cys  Cys Thr Gly Cys Ala  Cys Ala Cys Ala Thr  Cys Thr Cys
      2030            2035            2040
Thr Thr  Cys Ala Cys Thr Thr  Thr Cys Thr Thr Thr  Thr Ala Thr
      2045            2050            2055
Ala Gly  Ala Thr Cys Ala Gly  Gly Thr Ala Gly Gly  Gly Ala Cys
      2060            2065            2070
Thr Gly  Gly Gly Cys Gly Thr  Gly Thr Ala Gly Ala  Thr Gly Gly
      2075            2080            2085
Ala Ala  Cys Ala Ala Ala Cys  Thr Gly Thr Thr Thr  Thr Cys Cys
      2090            2095            2100
Gly Thr  Thr Cys Cys Cys Cys  Ala Gly Cys Cys Ala  Thr Cys Thr
      2105            2110            2115
Cys Thr  Gly Cys Ala Gly Gly  Thr Gly Cys Ala Cys  Thr Cys Cys
      2120            2125            2130
Ala Cys  Ala Thr Ala Ala Ala  Thr Cys Ala Ala Gly  Thr Gly Thr
      2135            2140            2145
Thr Ala  Ala Ala Ala Gly Thr  Gly Cys Thr Thr Thr  Gly Ala Thr
      2150            2155            2160
Thr Ala  Ala Ala Cys Ala Gly  Gly Ala Cys Ala Gly  Gly Cys Gly
      2165            2170            2175
Cys Gly  Thr Thr Cys Thr Thr  Gly Ala Gly Thr Thr  Cys Ala Thr
      2180            2185            2190
Cys Thr  Gly Thr Thr Cys Ala  Cys Ala Thr Ala Cys  Thr Gly Thr
      2195            2200            2205
Cys Thr  Gly Gly Cys Ala Ala  Gly Cys Gly Cys Thr  Gly Ala Cys
      2210            2215            2220
Thr Gly  Ala Gly Gly Gly Thr  Cys Thr Cys Cys Thr  Cys Thr Gly
      2225            2230            2235
Thr Ala  Cys Cys Cys Thr Gly  Thr Thr Cys Thr Gly  Ala Gly Ala
      2240            2245            2250
Ala Cys  Thr Ala Ala Cys Ala  Ala Ala Ala Gly Ala  Cys Gly Ala
      2255            2260            2265
Ala Thr  Cys Ala Ala Cys Ala  Thr Ala Cys Ala Gly  Ala Ala Ala
      2270            2275            2280
Ala Cys  Thr Gly Thr Thr Ala  Thr Thr Thr Ala Gly  Thr Gly Ala
      2285            2290            2295
Cys Thr  Gly Ala Thr Thr Ala  Ala Ala Cys Thr Ala  Ala Cys Gly
      2300            2305            2310
Ala Ala  Gly Gly Cys Ala Thr  Gly Gly Gly Cys Thr  Gly Gly Ala
      2315            2320            2325
Gly Ala  Ala Ala Thr Ala Ala  Cys Thr Cys Ala Gly  Cys Ala Gly
      2330            2335            2340
Thr Thr  Ala Ala Gly Ala Ala  Cys Ala Thr Thr Thr  Gly Cys Thr
      2345            2350            2355
Gly Ala  Thr Cys Thr Thr Gly  Cys Ala Gly Ala Gly  Gly Ala Cys
      2360            2365            2370
Cys Thr  Gly Gly Gly Thr Thr  Gly Gly Gly Thr Thr  Cys Cys Thr
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          2375            2380            2385
Ala Gly  Cys Ala Cys Ala Cys  Ala Cys Ala Gly Gly  Gly Ala Cys
          2390            2395            2400
Ala Gly  Thr Thr Cys Cys Ala  Gly Thr Cys Cys Cys  Gly Gly Thr
          2405            2410            2415
Gly Thr  Gly Thr Cys Cys Thr  Thr Thr Thr Cys Thr  Cys Ala Cys
          2420            2425            2430
Thr Thr  Cys Thr Gly Thr Gly  Gly Ala Cys Ala Cys  Ala Ala Gly
          2435            2440            2445
Thr Thr  Thr Thr Ala Cys Ala  Cys Ala Thr Ala Gly  Thr Gly Cys
          2450            2455            2460
Ala Cys  Ala Cys Ala Cys Ala  Thr Ala Cys Ala Cys  Thr Cys Ala
          2465            2470            2475
Cys Ala  Thr Ala Thr Ala Thr  Ala Ala Ala Ala Cys  Ala Gly Ala
          2480            2485            2490
Ala Cys  Ala Thr Thr Thr Ala  Ala Ala Ala Gly Thr  Ala Thr Gly
          2495            2500            2505
Thr Thr  Thr Ala Ala Ala Thr  Ala Ala Cys Gly Gly  Ala Ala Thr
          2510            2515            2520
Cys Ala  Thr Thr Thr Ala Thr  Ala Thr Ala Gly Gly  Thr Thr Thr
          2525            2530            2535
Thr Cys  Ala Thr Thr Thr Ala  Cys Ala Thr Ala Gly  Gly Thr Ala
          2540            2545            2550
Ala Ala  Thr Ala Gly Gly Cys  Ala Ala Ala Ala Ala  Thr Cys Thr
          2555            2560            2565
Gly Cys  Ala Thr Thr Thr Thr  Ala Thr Thr Gly Thr  Thr Thr Cys
          2570            2575            2580
Thr Ala  Ala Gly Thr Thr Thr  Thr Ala Ala Thr Thr  Thr Ala Thr
          2585            2590            2595
Thr Thr  Thr Thr Cys Thr Cys  Thr Gly Thr Gly Thr  Gly Thr Ala
          2600            2605            2610
Cys Ala  Thr Ala Cys Gly Cys  Ala Thr Gly Cys Cys  Thr Cys Cys
          2615            2620            2625
Thr Thr  Ala Thr Cys Thr Gly  Thr Ala Thr Gly Thr  Gly Cys Gly
          2630            2635            2640
Thr Gly  Cys Ala Cys Thr Gly  Thr Gly Thr Gly Cys  Ala Thr Gly
          2645            2650            2655
Cys Ala  Thr Gly Ala Ala Cys  Cys Cys Ala Cys Ala  Gly Ala Gly
          2660            2665            2670
Ala Cys  Cys Ala Gly Ala Ala  Gly Ala Gly Thr Ala  Cys Cys Ala
          2675            2680            2685
Cys Ala  Gly Ala Thr Thr Cys  Thr Cys Thr Gly Gly  Ala Gly Cys
          2690            2695            2700
Thr Gly  Gly Ala Gly Thr Gly  Ala Thr Thr Gly Ala  Thr Ala Gly
          2705            2710            2715
Gly Cys  Thr Gly Thr Thr Gly  Gly Gly Ala Gly Cys  Cys Ala Cys
          2720            2725            2730
Thr Cys  Cys Ala Cys Ala Thr  Gly Gly Gly Gly Ala  Thr Thr Cys
          2735            2740            2745
Ala Gly  Ala Gly Thr Thr Gly  Ala Ala Cys Thr Thr  Cys Gly Thr
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         2750            2755            2760
Thr Cys  Thr Cys Thr Gly Cys  Ala Ala Gly Ala Ala  Cys Ala Gly
         2765            2770            2775
Cys Cys  Ala Gly Cys Thr Cys  Thr Thr Ala Ala Cys  Thr Gly Ala
         2780            2785            2790
Thr Gly  Gly Cys Thr Thr Thr  Thr Ala Cys Cys Thr  Cys Cys Ala
         2795            2800            2805
Gly Cys  Cys Ala Cys Cys Thr  Thr Thr Thr Cys Cys  Thr Cys Ala
         2810            2815            2820
Thr Thr  Thr Thr Thr Ala Ala  Ala Ala Thr Thr Thr  Cys Cys Thr
         2825            2830            2835
Thr Cys  Cys Thr Thr Cys Cys  Thr Thr Thr Thr Thr  Gly Ala Gly
         2840            2845            2850
Ala Cys  Ala Gly Gly Gly Thr  Cys Thr Cys Ala Ala  Thr Ala Cys
         2855            2860            2865
Thr Thr  Ala Gly Cys Thr Cys  Ala Thr Cys Cys Cys  Ala Ala Cys
         2870            2875            2880
Thr Thr  Gly Ala Cys Cys Cys  Cys Ala Cys Thr Cys  Thr Thr Cys
         2885            2890            2895
Thr Cys  Thr Thr Gly Cys Cys  Thr Thr Ala Gly Thr  Cys Ala Cys
         2900            2905            2910
Cys Ala  Cys Ala Ala Thr Gly  Thr Thr Thr Ala Gly  Thr Thr Thr
         2915            2920            2925
Ala Thr  Ala Ala Gly Cys Ala  Thr Gly Cys Gly Thr  Cys Ala Cys
         2930            2935            2940
Thr Ala  Thr Gly Cys Cys Cys  Gly Gly Cys Thr Thr  Thr Ala Ala
         2945            2950            2955
Ala Thr  Ala Ala Ala Cys Thr  Cys Ala Cys Cys Cys  Ala Thr Ala
         2960            2965            2970
Ala Thr  Cys Cys Cys Ala Gly  Cys Ala Cys Thr Gly  Ala Ala Gly
         2975            2980            2985
Thr Ala  Gly Ala Cys Ala Ala  Ala Ala Gly Gly Gly  Ala Gly Gly
         2990            2995            3000
Ala Thr  Cys Gly Ala Thr Gly  Gly Gly Gly Cys Thr  Gly Ala Cys
         3005            3010            3015
Thr Gly  Gly Cys Cys Ala Cys  Ala Ala Gly Cys Cys  Gly Thr Gly
         3020            3025            3030
Cys Thr  Thr Cys Ala Ala Gly  Thr Thr Cys Ala Ala  Thr Gly Ala
         3035            3040            3045
Ala Gly  Ala Cys Cys Cys Thr  Gly Thr Cys Thr Cys  Ala Ala Gly
         3050            3055            3060
Gly Gly  Ala Ala Thr Ala Ala  Gly Gly Cys Ala Cys  Ala Gly Ala
         3065            3070            3075
Gly Gly  Ala Thr Ala Gly Ala  Gly Cys Cys Ala Thr  Ala Cys Gly
         3080            3085            3090
Cys Cys  Thr Gly Ala Cys Cys  Thr Cys Cys Thr Cys  Cys Thr Cys
         3095            3100            3105
Thr Gly  Gly Cys Cys Thr Cys  Thr Ala Cys Cys Cys  Ala Gly Gly
         3110            3115            3120
Cys Ala  Cys Ala Thr Gly Thr  Gly Cys Ala Thr Ala  Cys Ala Cys
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        3125              3130              3135
Ala Cys  Ala Cys Cys Ala Cys  Ala Cys Ala Cys Ala  Cys Ala Cys
        3140              3145              3150
Ala Cys  Ala Cys Ala Cys Ala  Cys Ala Cys Ala Cys  Ala Cys Ala
        3155              3160              3165
Cys Ala  Cys Ala Cys Ala Cys  Ala Gly Ala Gly Ala  Gly Ala Gly
        3170              3175              3180
Ala Gly  Ala Gly Ala Gly Ala  Gly Ala Gly Ala Gly  Ala Gly Ala
        3185              3190              3195
Gly Ala  Gly Ala Gly Ala Gly  Ala Gly Ala Gly Ala  Gly Ala Gly
        3200              3205              3210
Ala Gly  Ala Gly Ala Gly Ala  Gly Ala Ala Ala Cys  Thr Thr Thr
        3215              3220              3225
Thr Thr  Cys Cys Thr Cys Thr  Thr Thr Thr Thr Thr  Thr Thr Thr
        3230              3235              3240
Ala Ala  Ala Ala Ala Thr Ala  Thr Thr Ala Thr Thr  Thr Ala Thr
        3245              3250              3255
Thr Thr  Cys Ala Thr Gly Thr  Ala Thr Ala Thr Gly  Ala Gly Thr
        3260              3265              3270
Ala Cys  Ala Cys Thr Gly Thr  Thr Gly Cys Thr Gly  Thr Cys Thr
        3275              3280              3285
Thr Cys  Ala Gly Ala Cys Ala  Cys Cys Cys Cys Ala  Ala Ala Ala
        3290              3295              3300
Gly Ala  Ala Gly Gly Cys Ala  Thr Cys Ala Gly Ala  Thr Cys Cys
        3305              3310              3315
Cys Ala  Thr Thr Gly Ala Cys  Ala Ala Ala Thr Gly  Gly Thr Thr
        3320              3325              3330
Gly Thr  Gly Ala Gly Cys Cys  Ala Cys Cys Ala Thr  Gly Thr Gly
        3335              3340              3345
Gly Thr  Thr Gly Cys Thr Gly  Gly Gly Ala Ala Thr  Thr Gly Ala
        3350              3355              3360
Ala Cys  Thr Cys Ala Gly Gly  Ala Cys Cys Thr Cys  Thr Gly Gly
        3365              3370              3375
Ala Ala  Ala Ala Gly Cys Ala  Gly Thr Cys Ala Gly  Thr Gly Cys
        3380              3385              3390
Thr Cys  Thr Thr Ala Ala Cys  Cys Ala Thr Cys Thr  Cys Thr Thr
        3395              3400              3405
Cys Ala  Gly Cys Cys Cys Cys  Ala Cys Ala Ala Ala  Gly Ala Ala
        3410              3415              3420
Ala Cys  Thr Thr Thr Thr Ala  Ala Thr Gly Ala Gly  Cys Ala Ala
        3425              3430              3435
Ala Thr  Ala Ala Thr Thr Gly  Cys Thr Thr Cys Cys  Ala Ala Gly
        3440              3445              3450
Thr Ala  Ala Ala Thr Ala Cys  Thr Ala Cys Thr Ala  Ala Thr Ala
        3455              3460              3465
Thr Ala  Thr Thr Thr Cys Thr  Ala Ala Cys Cys Ala  Thr Ala Cys
        3470              3475              3480
Thr Ala  Thr Ala Cys Ala Ala  Gly Gly Ala Ala Thr  Thr Ala Thr
        3485              3490              3495
Thr Ala  Ala Ala Gly Ala Ala  Cys Gly Gly Ala Thr  Ala Ala Thr
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          3500           3505           3510
Ala Gly  Gly Ala Gly Ala Ala  Thr Ala Ala Ala Ala  Ala Ala Thr
   3515           3520           3525
Thr Ala  Thr Ala Ala Gly Thr  Cys Ala Cys Thr Thr  Thr Ala Thr
   3530           3535           3540
Ala Ala  Thr Gly Cys Thr Ala  Thr Cys Thr Ala Ala  Thr Cys Cys
   3545           3550           3555
Ala Thr  Cys Thr Ala Gly Ala  Ala Cys Ala Ala Ala  Ala Ala Cys
   3560           3565           3570
Ala Cys  Thr Gly Thr Ala Ala  Thr Ala Ala Thr Gly  Cys Ala Ala
   3575           3580           3585
Ala Ala  Gly Ala Gly Cys Gly  Cys Ala Gly Thr Gly  Cys Cys Thr
   3590           3595           3600
Ala Gly  Ala Thr Thr Ala Ala  Ala Thr Ala Ala Ala  Thr Ala Ala
   3605           3610           3615
Ala Ala  Thr Gly Cys Ala Gly  Ala Cys Cys Ala Ala  Thr Ala Ala
   3620           3625           3630
Gly Thr  Ala Ala Ala Cys Thr  Thr Thr Ala Thr Ala  Gly Cys Ala
   3635           3640           3645
Gly Cys  Ala Cys Ala Thr Gly  Gly Ala Ala Ala Thr  Gly Ala Cys
   3650           3655           3660
Gly Ala  Ala Ala Thr Thr Cys  Cys Thr Ala Ala Cys  Ala Ala Ala
   3665           3670           3675
Ala Ala  Gly Cys Thr Cys Ala  Ala Gly Ala Thr Gly  Gly Gly Cys
   3680           3685           3690
Ala Gly  Thr Thr Thr Ala Thr  Thr Thr Ala Ala Ala  Gly Thr Gly
   3695           3700           3705
Ala Ala  Ala Thr Ala Cys Ala  Gly Gly Ala Gly Ala  Ala Ala Thr
   3710           3715           3720
Ala Ala  Ala Gly Cys Ala Cys  Ala Gly Ala Ala Ala  Gly Ala Thr
   3725           3730           3735
Ala Cys  Thr Cys Ala Ala Ala  Gly Gly Cys Ala Thr  Ala Gly Ala
   3740           3745           3750
Ala Gly  Thr Thr Ala Ala Cys  Ala Thr Ala Gly Gly  Gly Gly Gly
   3755           3760           3765
Gly Cys  Thr Gly Gly Cys Gly  Ala Gly Ala Thr Gly  Gly Cys Thr
   3770           3775           3780
Cys Thr  Ala Cys Ala Gly Gly  Thr Ala Ala Gly Ala  Gly Cys Ala
   3785           3790           3795
Cys Cys  Cys Gly Ala Cys Thr  Gly Cys Thr Cys Thr  Thr Cys Cys
   3800           3805           3810
Ala Ala  Ala Gly Gly Thr Cys  Cys Thr Gly Ala Gly  Thr Thr Cys
   3815           3820           3825
Ala Ala  Ala Thr Cys Cys Cys  Ala Gly Cys Ala Ala  Cys Cys Ala
   3830           3835           3840
Cys Ala  Thr Gly Gly Thr Gly  Gly Cys Thr Cys Ala  Cys Ala Ala
   3845           3850           3855
Cys Cys  Ala Thr Cys Cys Gly  Thr Ala Ala Thr Gly  Ala Gly Ala
   3860           3865           3870
Thr Thr  Thr Gly Ala Cys Thr  Cys Cys Cys Thr Cys  Thr Thr Cys
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        3875            3880            3885
Thr Gly  Gly Thr Gly Thr Gly  Thr Cys Thr Gly Ala  Ala Gly Ala
        3890            3895            3900
Cys Ala  Gly Cys Thr Ala Cys  Ala Gly Thr Gly Thr  Ala Cys Thr
        3905            3910            3915
Thr Ala  Ala Cys Ala Thr Ala  Thr Ala Ala Thr Ala  Ala Ala Thr
        3920            3925            3930
Ala Ala  Ala Thr Ala Ala Ala  Ala Cys Thr Thr Thr  Ala Ala Ala
        3935            3940            3945
Ala Ala  Ala Ala Ala Ala Ala  Thr Thr Ala Ala Ala  Gly Ala Ala
        3950            3955            3960
Gly Thr  Thr Ala Ala Cys Ala  Thr Ala Gly Ala Ala  Gly Cys Cys
        3965            3970            3975
Cys Ala  Cys Thr Cys Ala Gly  Gly Ala Cys Cys Cys  Cys Ala Cys
        3980            3985            3990
Thr Cys  Ala Gly Thr Cys Cys  Thr Ala Gly Ala Gly  Thr Ala Thr
        3995            4000            4005
Gly Ala  Cys Ala Thr Thr Ala  Thr Thr Ala Thr Gly  Gly Ala Cys
        4010            4015            4020
Ala Thr  Thr Ala Ala Ala Ala  Ala Gly Ala Gly Ala  Ala Ala Ala
        4025            4030            4035
Thr Thr  Cys Ala Gly Cys Ala  Gly Thr Ala Gly Thr  Gly Thr Gly
        4040            4045            4050
Cys Ala  Thr Gly Cys Ala Cys  Thr Gly Cys Ala Thr  Ala Thr Ala
        4055            4060            4065
Thr Ala  Cys Ala Cys Ala Ala  Ala Thr Cys Cys Thr  Thr Gly Ala
        4070            4075            4080
Gly Thr  Thr Thr Cys Ala Thr  Ala Cys Cys Ala Ala  Ala Thr Gly
        4085            4090            4095
Cys Cys  Thr Thr Thr Ala Gly  Ala Cys Cys Ala Cys  Thr Thr Gly
        4100            4105            4110
Thr Gly  Gly Cys Thr Cys Thr  Gly Cys Ala Ala Ala  Cys Cys Thr
        4115            4120            4125
Gly Thr  Ala Ala Thr Cys Cys  Thr Ala Gly Cys Ala  Cys Thr Thr
        4130            4135            4140
Gly Thr  Gly Ala Ala Ala Ala  Gly Gly Thr Cys Ala  Gly Cys Thr
        4145            4150            4155
Cys Ala  Gly Gly Ala Ala Cys  Thr Thr Thr Gly Gly  Gly Ala Ala
        4160            4165            4170
Gly Gly  Thr Cys Ala Thr Gly  Ala Ala Ala Cys Thr  Cys Thr Thr
        4175            4180            4185
Gly Cys  Cys Cys Cys Thr Cys  Cys Ala Gly Ala Ala  Gly Gly Gly
        4190            4195            4200
Ala Gly  Ala Gly Gly Cys Thr  Ala Ala Thr Thr Ala  Ala Cys Ala
        4205            4210            4215
Thr Thr  Thr Cys Thr Cys Ala  Gly Ala Cys Cys Ala  Cys Ala Gly
        4220            4225            4230
Gly Gly  Cys Gly Gly Gly Ala  Ala Cys Cys Gly Ala  Cys Cys Thr
        4235            4240            4245
Gly Cys  Gly Gly Gly Thr Gly  Gly Gly Gly Ala Cys  Ala Gly Ala
```

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     4250            4255            4260
Cys Thr  Gly Thr Thr Gly Cys  Cys Cys Ala Thr Thr  Thr Cys Cys
     4265            4270            4275
Ala Gly  Ala Cys Thr Ala Gly  Gly Gly Ala Ala Gly  Thr Cys Cys
     4280            4285            4290
Thr Thr  Gly Thr Cys Ala Cys  Cys Thr Cys Ala Thr  Thr Cys Cys
     4295            4300            4305
Cys Thr  Ala Ala Ala Gly Ala  Cys Cys Ala Ala Thr  Cys Ala Ala
     4310            4315            4320
Thr Thr  Thr Ala Ala Ala Gly  Gly Gly Thr Gly Cys  Ala Cys Thr
     4325            4330            4335
Gly Thr  Thr Cys Cys Gly Cys  Cys Ala Ala Thr Cys  Ala Thr Ala
     4340            4345            4350
Thr Thr  Gly Thr Gly Cys Cys  Thr Ala Gly Thr Thr  Gly Cys Thr
     4355            4360            4365
Gly Ala  Thr Gly Cys Thr Cys  Thr Ala Thr Thr Cys  Thr Gly Cys
     4370            4375            4380
Cys Cys  Thr Thr Ala Gly Ala  Ala Ala Cys Cys Gly  Thr Ala Thr
     4385            4390            4395
Ala Ala  Ala Ala Ala Cys Thr  Ala Gly Cys Gly Ala  Ala Gly Gly
     4400            4405            4410
Gly Gly  Thr Ala Cys Cys Ala  Gly Gly Gly Thr  Ala Ala Cys
     4415            4420            4425
Cys Cys  Cys Cys Thr Cys Thr  Cys Cys Thr Thr Cys  Ala Gly Gly
     4430            4435            4440
Thr Cys  Thr Gly Gly Gly Ala  Cys Ala Ala Thr Cys  Cys Cys Ala
     4445            4450            4455
Cys Thr  Ala Cys Ala Cys Thr  Gly Gly Ala Ala Cys  Ala Ala Thr
     4460            4465            4470
Ala Ala  Thr Thr Thr Cys Cys  Thr Cys Thr Gly Gly  Cys Thr Thr
     4475            4480            4485
Thr Thr  Thr Gly Cys Ala Thr  Thr Gly Ala Thr Cys  Ala Cys Ala
     4490            4495            4500
Gly Cys  Thr Cys Cys Ala Cys  Thr Thr Cys Gly Thr  Gly Gly Thr
     4505            4510            4515
Ala Ala  Gly Thr Thr Ala Ala  Gly Ala Cys Thr Cys  Cys Cys Thr
     4520            4525            4530
Gly Gly  Ala Gly Thr Cys Thr  Thr Ala Cys Ala Thr  Thr Gly Gly
     4535            4540            4545
Cys Ala  Ala Ala Thr Gly Cys  Ala Gly Gly Cys Ala  Ala Ala Ala
     4550            4555            4560
Gly Ala  Ala Thr Cys Cys Gly  Ala Ala Ala Cys Thr  Cys Ala Ala
     4565            4570            4575
Gly Gly  Thr Cys Ala Thr Cys  Thr Ala Ala Ala Ala  Cys Thr Ala
     4580            4585            4590
Cys Ala  Thr Ala Gly Cys Ala  Ala Gly Cys Ala Thr  Gly Cys Thr
     4595            4600            4605
Gly Cys  Thr Ala Gly Cys Cys  Thr Gly Gly Gly Cys  Thr Cys Cys
     4610            4615            4620
Ala Thr  Gly Ala Gly Ala Cys  Cys Cys Thr Gly Gly  Gly Gly Gly
```

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        4625            4630            4635
Ala Gly  Gly Gly Gly Cys Ala  Gly Ala Gly Gly Gly  Ala Gly Ala
        4640            4645            4650
Cys Cys  Gly Thr Thr Cys Ala  Gly Ala Ala Gly Ala  Cys Ala Gly
        4655            4660            4665
Thr Cys  Ala Ala Gly Ala Thr  Gly Thr Thr Gly Cys  Ala Gly Cys
        4670            4675            4680
Ala Gly  Cys Ala Cys Ala Gly  Gly Cys Ala Gly Cys  Cys Thr Gly
        4685            4690            4695
Gly Cys  Cys Ala Cys Cys Ala  Gly Thr Gly Cys Thr  Gly Thr Cys
        4700            4705            4710
Ala Cys  Cys Ala Gly Ala Cys  Ala Thr Gly Thr Thr  Ala Ala Thr
        4715            4720            4725
Gly Thr  Thr Gly Gly Ala Ala  Thr Ala Ala Ala Gly  Cys Cys Thr
        4730            4735            4740
Cys Ala  Ala Thr Cys Ala Thr  Gly Ala Cys Thr Cys  Thr Cys Cys
        4745            4750            4755
Cys Ala  Gly Thr Thr Thr Thr  Ala Thr Ala Ala Thr  Thr Gly Gly
        4760            4765            4770
Ala Ala  Ala Thr Ala Ala Gly  Ala Ala Ala Gly Gly  Ala Ala Ala
        4775            4780            4785
Gly Ala  Cys Thr Ala Thr Ala  Gly Gly Ala Ala Cys  Ala Ala Cys
        4790            4795            4800
Thr Gly  Thr Gly Thr Thr Cys  Ala Gly Ala Ala Cys  Ala Cys Thr
        4805            4810            4815
Ala Thr  Thr Thr Ala Thr Ala  Ala Thr Ala Gly Cys  Ala Ala Ala
        4820            4825            4830
Gly Ala  Thr Cys Thr Cys Ala  Gly Ala Gly Thr Ala  Ala Cys Cys
        4835            4840            4845
Cys Ala  Ala Ala Cys Thr Thr  Cys Thr Ala Gly Ala  Cys Ala Thr
        4850            4855            4860
Thr Gly  Ala Thr Thr Thr Gly  Gly Gly Ala Ala Gly  Ala Thr Cys
        4865            4870            4875
Thr Cys  Thr Thr Gly Gly Cys  Ala Gly Cys Thr Thr  Ala Thr Thr
        4880            4885            4890
Thr Thr  Gly Ala Ala Ala Ala  Cys Thr Thr Thr Ala  Cys Ala Ala
        4895            4900            4905
Thr Gly  Thr Thr Ala Ala Ala  Thr Ala Thr Gly Thr  Ala Ala Ala
        4910            4915            4920
Ala Ala  Cys Ala Ala Gly Gly  Ala Cys Ala Gly Thr  Thr Thr Thr
        4925            4930            4935
Gly Thr  Thr Thr Thr Thr Thr  Gly Thr Thr Thr Thr  Gly Thr Thr
        4940            4945            4950
Thr Thr  Gly Thr Thr Thr Thr  Gly Thr Thr Thr Thr  Ala Gly Gly
        4955            4960            4965
Gly Ala  Thr Ala Thr Ala Thr  Ala Thr Thr Cys Ala  Thr Ala Thr
        4970            4975            4980
Ala Thr  Gly Thr Ala Thr Ala  Thr Gly Ala Ala Thr  Gly Ala Ala
        4985            4990            4995
Ala Ala  Cys Cys Cys Ala Ala  Ala Cys Thr Thr Ala  Ala Ala Ala
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       5000            5005            5010
Thr Thr  Cys Cys Cys Cys Ala  Cys Thr Ala Thr Gly  Cys Thr Thr
    5015            5020            5025
Thr Ala  Ala Ala Gly Gly Cys  Thr Thr Thr Cys Thr  Gly Ala Cys
    5030            5035            5040
Ala Ala  Thr Ala Ala Cys Ala  Gly Ala Ala Ala Gly  Ala Gly Ala
    5045            5050            5055
Ala Ala  Thr Ala Gly Ala Gly  Ala Ala Thr Cys Cys  Ala Thr Ala
    5060            5065            5070
Ala Ala  Ala Ala Cys Thr Ala  Gly Thr Thr Cys Thr  Gly Ala Ala
    5075            5080            5085
Ala Cys  Thr Ala Thr Cys Ala  Ala Thr Ala Gly Gly  Cys Thr Thr
    5090            5095            5100
Gly Ala  Cys Ala Cys Thr Cys  Thr Thr Thr Ala Gly  Cys Thr Gly
    5105            5110            5115
Cys Cys  Ala Gly Gly Ala Gly  Ala Gly Cys Thr Gly  Ala Ala Thr
    5120            5125            5130
Cys Thr  Gly Ala Ala Cys Ala  Cys Ala Gly Gly Gly  Ala Ala Cys
    5135            5140            5145
Cys Cys  Cys Ala Cys Cys Cys  Ala Gly Cys Ala Cys  Cys Cys Cys
    5150            5155            5160
Ala Ala  Ala Thr Thr Thr Gly  Gly Ala Thr Thr Ala  Thr Thr Gly
    5165            5170            5175
Thr Thr  Thr Thr Ala Thr Thr  Thr Thr Ala Thr Cys  Thr Thr Thr
    5180            5185            5190
Cys Cys  Cys Cys Thr Ala Cys  Cys Cys Cys Ala  Ala Gly Ala
    5195            5200            5205
Cys Ala  Gly Gly Gly Thr Thr  Thr Cys Thr Cys Thr  Gly Cys Gly
    5210            5215            5220
Thr Gly  Gly Thr Cys Cys Thr  Gly Gly Cys Thr Gly  Thr Cys Cys
    5225            5230            5235
Thr Gly  Gly Ala Ala Cys Thr  Cys Gly Gly Ala Gly  Ala Thr Cys
    5240            5245            5250
Cys Thr  Cys Thr Gly Cys Cys  Thr Cys Thr Cys Thr  Gly Cys Cys
    5255            5260            5265
Thr Cys  Thr Cys Thr Gly Cys  Cys Thr Cys Thr Cys  Thr Cys Thr
    5270            5275            5280
Cys Thr  Cys Thr Cys Thr Gly  Cys Cys Thr Cys Thr  Cys Thr Cys
    5285            5290            5295
Thr Gly  Cys Cys Thr Cys Thr  Cys Thr Cys Thr Cys  Thr Cys Thr
    5300            5305            5310
Cys Thr  Cys Thr Cys Thr Cys  Thr Gly Cys Cys Thr  Cys Thr Cys
    5315            5320            5325
Thr Cys  Thr Cys Thr Cys Thr  Cys Thr Cys Thr Gly  Cys Cys Cys
    5330            5335            5340
Cys Thr  Cys Gly Cys Thr Gly  Cys Cys Thr Cys Thr  Cys Thr Cys
    5345            5350            5355
Thr Gly  Cys Cys Thr Cys Thr  Cys Thr Cys Thr Gly  Cys Cys Cys
    5360            5365            5370
Cys Thr  Cys Thr Cys Thr Gly  Cys Cys Cys Cys Thr  Cys Thr Cys
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        5375            5380            5385
Thr Gly  Cys Cys Cys Cys Thr  Cys Thr Cys Thr Cys  Thr Thr Cys
        5390            5395            5400
Cys Cys  Cys Thr Cys Thr Cys  Thr Gly Cys Cys Thr  Cys Thr Cys
        5405            5410            5415
Thr Cys  Thr Cys Thr Gly Cys  Cys Cys Cys Thr Cys  Thr Cys Thr
        5420            5425            5430
Gly Cys  Cys Thr Cys Thr Cys  Thr Gly Cys Cys Thr  Cys Thr Gly
        5435            5440            5445
Cys Cys  Thr Cys Cys Thr Gly  Ala Gly Thr Gly Cys  Thr Gly Gly
        5450            5455            5460
Gly Ala  Thr Thr Thr Ala Ala  Ala Gly Gly Cys Ala  Thr Cys Ala
        5465            5470            5475
Gly Cys  Cys Ala Thr Cys Ala  Cys Thr Thr Cys Cys  Ala Gly Cys
        5480            5485            5490
Thr Thr  Cys Cys Thr Thr Thr  Ala Thr Cys Ala Thr  Thr Thr Thr
        5495            5500            5505
Ala Ala  Ala Ala Ala Gly Ala  Ala Thr Thr Thr Cys  Cys Thr Ala
        5510            5515            5520
Thr Gly  Thr Gly Ala Cys Thr  Ala Cys Thr Gly Thr  Ala Thr Thr
        5525            5530            5535
Thr Ala  Ala Ala Thr Cys Ala  Cys Cys Ala Cys Ala  Cys Gly Gly
        5540            5545            5550
Cys Cys  Ala Ala Thr Ala Cys  Thr Cys Cys Cys Cys  Cys Cys Cys
        5555            5560            5565
Ala Ala  Cys Thr Cys Cys Thr  Cys Cys Cys Ala Ala  Ala Thr Cys
        5570            5575            5580
Cys Cys  Cys Thr Cys Thr Ala  Cys Cys Cys Ala Cys  Thr Cys Ala
        5585            5590            5595
Ala Ala  Thr Thr Cys Thr Thr  Ala Thr Cys Thr Thr  Gly Thr Ala
        5600            5605            5610
Thr Thr  Cys Thr Thr Thr Ala  Thr Cys Ala Thr Thr  Ala Thr Thr
        5615            5620            5625
Ala Thr  Ala Cys Ala Thr Ala  Thr Gly Thr Gly Thr  Ala Thr Ala
        5630            5635            5640
Thr Ala  Thr Gly Thr Gly Thr  Gly Thr Gly Thr Gly  Thr Ala Thr
        5645            5650            5655
Ala Thr  Ala Thr Ala Thr Ala  Thr Ala Thr Ala Cys  Thr Ala Thr
        5660            5665            5670
Ala Thr  Ala Cys Thr Gly Cys  Thr Ala Ala Thr Gly  Ala Gly Thr
        5675            5680            5685
Ala Ala  Cys Ala Thr Thr Thr  Ala Gly Thr Gly Thr  Thr Ala Thr
        5690            5695            5700
Thr Cys  Ala Thr Thr Gly Thr  Thr Gly Cys Ala Thr  Gly Thr Thr
        5705            5710            5715
Thr Thr  Cys Ala Ala Thr Gly  Thr Gly Cys Thr Thr  Thr Cys Cys
        5720            5725            5730
Ala Gly  Gly Ala Gly Gly Cys  Thr Gly Gly Gly Gly  Gly Gly Ala
        5735            5740            5745
Thr Gly  Gly Cys Thr Cys Ala  Gly Thr Gly Gly Gly  Cys Ala Ala
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        5750            5755             5760
Ala Ala  Thr Thr Cys Thr Ala  Gly Cys Thr Gly Cys  Ala Cys Ala
    5765            5770             5775
Ala Gly  Cys Cys Thr Ala Ala  Gly Gly Ala Cys Cys  Ala Gly Gly
    5780            5785             5790
Gly Thr  Thr Cys Ala Gly Ala  Thr Cys Cys Cys  Ala Ala Thr
    5795            5800             5805
Ala Thr  Ala Ala Ala Gly Gly  Cys Thr Gly Gly Cys  Thr Gly Gly
    5810            5815             5820
Ala Cys  Ala Thr Gly Gly Thr  Gly Gly Cys Thr Thr  Gly Cys Cys
    5825            5830             5835
Thr Ala  Thr Gly Ala Thr Ala  Cys Thr Ala Gly Cys  Ala Thr Gly
    5840            5845             5850
Cys Thr  Thr Gly Cys Thr Gly  Gly Ala Ala Gly Cys  Ala Ala Ala
    5855            5860             5865
Gly Ala  Cys Ala Gly Gly Gly  Ala Ala Thr Cys Cys  Cys Thr Gly
    5870            5875             5880
Gly Ala  Gly Ala Cys Thr Thr  Ala Gly Ala Ala Thr  Cys Thr Cys
    5885            5890             5895
Ala Gly  Ala Ala Gly Thr Gly  Ala Thr Cys Thr Gly  Gly Gly Cys
    5900            5905             5910
Thr Gly  Gly Ala Cys Ala Gly  Ala Cys Thr Ala Gly  Cys Thr Gly
    5915            5920             5925
Ala Ala  Cys Thr Gly Gly Cys  Cys Ala Gly Cys Thr  Cys Thr Gly
    5930            5935             5940
Gly Gly  Thr Thr Cys Ala Thr  Cys Ala Ala Gly Ala  Ala Ala Cys
    5945            5950             5955
Cys Cys  Thr Ala Cys Cys Thr  Cys Cys Ala Thr Ala  Ala Cys Ala
    5960            5965             5970
Thr Ala  Ala Ala Gly Thr Gly  Thr Gly Ala Thr Gly  Gly Ala Gly
    5975            5980             5985
Ala Ala  Ala Gly Gly Cys Ala  Cys Cys Thr Ala Ala  Thr Gly Thr
    5990            5995             6000
Cys Ala  Ala Cys Cys Thr Cys  Ala Ala Ala Cys Cys  Cys Cys Thr
    6005            6010             6015
Ala Cys  Cys Thr Gly Cys Ala  Thr Gly Thr Gly Cys  Ala Cys Ala
    6020            6025             6030
Cys Ala  Cys Ala Thr Ala Cys  Ala Thr Cys Cys Ala  Cys Ala Cys
    6035            6040             6045
Cys Ala  Cys Ala Cys Ala Cys  Ala Cys Ala Cys Ala  Cys Ala Cys
    6050            6055             6060
Ala Cys  Ala Cys Ala Cys Ala  Cys Ala Cys Ala Cys  Ala Cys Ala
    6065            6070             6075
Cys Cys  Ala Cys Ala Cys Ala  Cys Ala Cys Ala Cys  Ala Cys Ala
    6080            6085             6090
Cys Ala  Cys Ala Ala Ala Thr  Ala Ala Ala Thr Ala  Ala Gly Thr
    6095            6100             6105
Ala Ala  Ala Thr Ala Ala Ala  Thr Ala Ala Ala Ala  Thr Ala Thr
    6110            6115             6120
Thr Thr  Ala Gly Cys Thr Cys  Thr Cys Cys Ala Gly  Ala Cys Cys
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          6125              6130              6135
Ala Ala   Ala Thr Cys Thr Thr   Gly Gly Thr Gly Ala   Ala Ala Cys
          6140              6145              6150
Cys Cys   Ala Thr Gly Cys Ala   Thr Thr Thr Gly Cys   Ala Thr Thr
          6155              6160              6165
Thr Gly   Thr Gly Thr Gly Thr   Gly Thr Cys Cys Thr   Ala Cys Ala
          6170              6175              6180
Ala Ala   Cys Ala Cys Thr Gly   Ala Ala Gly Gly Thr   Thr Ala Ala
          6185              6190              6195
Gly Ala   Ala Gly Cys Ala Thr   Gly Cys Thr Cys Cys   Thr Thr Ala
          6200              6205              6210
Gly Thr   Ala Ala Thr Thr Thr   Thr Ala Thr Ala Gly   Cys Ala Gly
          6215              6220              6225
Thr Thr   Thr Gly Cys Gly Thr   Thr Thr Cys Cys Ala   Gly Ala Thr
          6230              6235              6240
Thr Gly   Ala Ala Ala Ala Cys   Ala Gly Ala Thr Thr   Cys Thr Ala
          6245              6250              6255
Thr Ala   Gly Gly Cys Thr Ala   Cys Ala Cys Ala Gly   Thr Gly Cys
          6260              6265              6270
Thr Ala   Ala Ala Thr Gly Gly   Ala Thr Thr Ala Thr   Gly Cys Thr
          6275              6280              6285
Cys Ala   Gly Ala Thr Ala Cys   Ala Gly Ala Thr Thr   Gly Ala Ala
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Ala Ala   Gly Gly Ala Thr Ala   Cys Ala Gly Ala Thr   Thr Gly Ala
          6305              6310              6315
Ala Ala   Ala Gly Gly Gly Thr   Cys Gly Gly Gly Gly   Thr Cys Thr
          6320              6325              6330
Gly Gly   Gly Cys Cys Ala Gly   Gly Ala Thr Gly Ala   Cys Gly Gly
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Gly Cys   Cys Ala Ala Cys Thr   Ala Thr Cys Thr Thr   Thr Gly Cys
          6350              6355              6360
Cys Cys   Gly Gly Gly Cys Thr   Thr Gly Thr Cys Cys   Thr Thr Cys
          6365              6370              6375
Ala Gly   Gly Gly Ala Ala Gly   Gly Gly Thr Thr Ala   Cys Ala Gly
          6380              6385              6390
Gly Ala   Thr Thr Cys Ala Cys   Cys Ala Cys Thr Gly   Gly Gly Gly
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Thr Gly   Thr Gly Gly Cys Cys   Thr Ala Thr Cys Thr   Gly Cys Thr
          6410              6415              6420
Gly Thr   Thr Ala Gly Gly Ala   Cys Cys Thr Gly Ala   Ala Thr Thr
          6425              6430              6435
Gly Cys   Cys Thr Gly Gly Ala   Gly Thr Gly Thr Thr   Thr Cys Thr
          6440              6445              6450
Ala Gly   Thr Thr Cys Cys Cys   Ala Cys Thr Ala Gly   Thr Thr Gly
          6455              6460              6465
Thr Thr   Gly Ala Ala Cys Thr   Thr Thr Ala Cys Cys   Thr Thr Gly
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Ala Ala   Cys Cys Thr Cys Thr   Gly Cys Thr Cys Cys   Cys Ala Gly
          6485              6490              6495
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<211> 361
<212> PRT
<213> Human
<223> Promoter region of human s-SHIP.
<400> 9

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Thr Ala Gly Ala Gly Thr Gly Cys Ala Gly Thr Thr Thr Gly Gly Cys
        20   25   30

Thr Ala Ala Ala Gly Cys Ala Ala Ala Ala Cys Cys Thr Ala Gly Gly
        35   40   45

Thr Ala Cys Ala Gly Thr Cys Ala Gly Gly Gly Ala Cys Thr Ala Cys
    50   55   60

Ala Cys Ala Ala Thr Thr Cys Cys Ala Gly Thr Thr Cys Gly Cys Thr
65   70   75   80

Gly Thr Gly Gly Gly Thr Thr Gly Gly Gly Ala Ala Gly Gly Gly Ala
            85   90   95

Thr Gly Gly Gly Thr Gly Gly Gly Cys Cys Ala Gly Thr Gly Cys Thr
        100   105   110

Gly Gly Cys Ala Ala Gly Cys Cys Thr Thr Gly Ala Thr Cys Thr Thr
        115   120   125

Thr Gly Cys Cys Cys Gly Gly Gly Cys Thr Thr Gly Thr Cys Cys Thr
    130   135   140

Thr Cys Thr Gly Gly Gly Gly Ala Gly Ala Ala Thr Thr Ala Cys Cys
145   150   155   160

Thr Gly Cys Thr Thr Cys Thr Gly Cys Thr Gly Gly Ala Cys Thr Gly
            165   170   175

Ala Gly Gly Gly Thr Gly Cys Cys Cys Thr Cys Ala Thr Cys Thr Cys
        180   185   190

Thr Gly Gly Cys Thr Ala Gly Ala Gly Cys Cys Cys Gly Thr Gly Cys
        195   200   205

Thr Gly Cys Cys Ala Thr Gly Gly Ala Ala Gly Ala Cys Thr Cys Thr
    210   215   220

Thr Thr Cys Cys Gly Gly Thr Gly Cys Cys Cys Ala Cys Thr Ala Ala
225   230   235   240

Ala Thr Cys Cys Thr Thr Gly Ala Thr Gly Thr Thr Cys Ala Cys Cys
            245   250   255

Thr Thr Gly Thr Cys Cys Cys Cys Thr Gly Cys Cys Cys Cys Cys Ala
            260   265   270

Gly Ala Gly Ala Ala Gly Thr Cys Ala Thr Cys Cys Gly Gly Ala Cys
        275   280   285

Cys Cys Thr Cys Cys Cys Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly
    290   295   300

Thr Cys Thr Cys Thr Gly Cys Ala Gly Ala Gly Gly Thr Thr Ala Thr
305   310   315   320

Thr Thr Gly Ala Cys Cys Ala Gly Cys Ala Gly Cys Thr Cys Thr Cys
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Cys Cys Cys Gly Gly Gly Cys Cys Thr Cys Cys Gly Thr Cys Cys Ala
        340   345   350

Cys Gly Thr Cys Cys Thr Cys Ala Gly

355   360
<210> 10
<211> 279
<212> PRT
<213> Human
<223> Promoter region of human s-SHIP.
<400> 10
Gly Thr Ala Ala Thr Gly Gly Cys Thr Gly Gly Cys Cys Cys Ala Cys
1   5   10   15
Gly Gly Gly Gly Gly Cys Gly Gly Gly Cys Ala Gly Gly Thr Gly Gly
            20   25   30
Gly Gly Gly Cys Gly Gly Cys Cys Ala Cys Cys Ala Gly Gly Thr Gly
        35   40   45
Ala Gly Ala Gly Ala Ala Ala Cys Ala Gly Cys Thr Cys Ala Thr Gly
    50   55   60
Ala Gly Ala Gly Cys Gly Ala Cys Cys Thr Cys Thr Gly Cys Cys Thr
65   70   75   80
Cys Thr Gly Cys Cys Thr Gly Gly Cys Thr Gly Ala Ala Cys Ala Ala
            85   90   95
Ala Thr Gly Cys Cys Thr Cys Thr Gly Cys Cys Gly Cys Ala Cys Thr
        100   105   110
Cys Ala Cys Ala Ala Thr Ala Ala Thr Thr Gly Ala Gly Thr Gly Gly
        115   120   125
Thr Gly Ala Gly Cys Ala Cys Ala Gly Cys Thr Thr Gly Gly Ala Ala
    130   135   140
Ala Thr Cys Thr Cys Thr Gly Thr Gly Gly Thr Thr Gly Thr Thr Thr
145   150   155   160
Gly Gly Ala Gly Gly Thr Cys Thr Thr Gly Thr Thr Ala Thr Cys Ala
            165   170   175
Thr Gly Gly Ala Ala Thr Thr Thr Gly Ala Ala Cys Ala Gly Thr Ala
        180   185   190
Gly Cys Thr Thr Gly Thr Gly Thr Gly Thr Gly Cys Thr Gly Cys Ala
    195   200   205
Gly Cys Thr Thr Thr Thr Thr Ala Cys Ala Ala Cys Thr Ala Ala Ala
    210   215   220
Gly Thr Thr Ala Ala Thr Thr Gly Gly Ala Gly Gly Cys Cys Ala Gly
225   230   235   240
Thr Thr Gly Cys Thr Cys Thr Gly Gly Gly Ala Ala Gly Cys Gly Gly
            245   250   255
Ala Thr Gly Gly Gly Gly Thr Gly Gly Gly Ala Gly Gly Ala Cys Ala
        260   265   270
Thr Gly Gly Cys Cys Ala Gly
    275